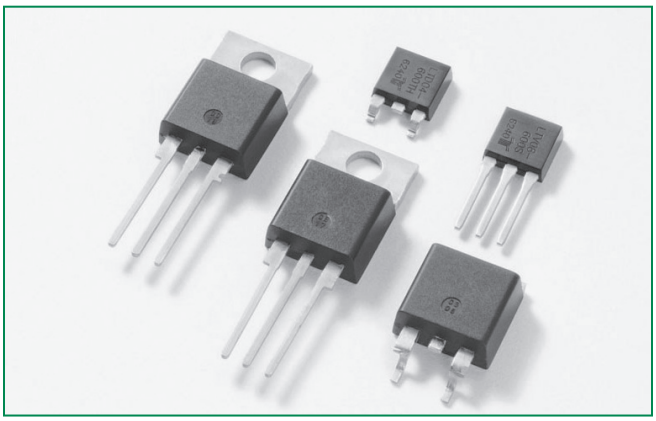
RoHS Lxx06xx & Qxx06xx & Qxx06xHx Series



Description

6 Amp bi-directional solid state switch series is designed for AC switching and phase control applications such as motor speed and temperature modulation controls, lighting controls, and static switching relays.

Sensitive type devices guarantee gate control in Quadrants I & IV needed for digital control circuitry.

Standard type devices normally operate in Quadrants I & III triggered from AC line.

Alternistor type devices only operate in quadrants I, II, & III and are used in circuits requiring high dv/dt capability.

Agency Approval

Agency	Agency File Number
®	L Package: E71639

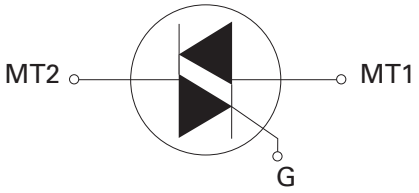
Features & Benefits

- RoHS compliant
- Glass – passivated junctions
- Voltage capability up to 1000 V
- Surge capability up to 85 A
- Electrically isolated "L - Package" is UL recognized for 2500Vrms
- Solid-state switching eliminates arcing or contact bounce that create voltage transients
- No contacts to wear out from reaction of switching events
- Restricted (or limited) RFI generation, depending on activation point of sine wave
- Requires only a small gate activation pulse in each half-cycle

Main Features

Symbol	Value	Unit
$I_{T(RMS)}$	6	A
V_{DRM}/V_{RRM}	400 to 1000	V
$I_{GT\ (Q1)}$	5 to 50	mA

Schematic Symbol



Applications

Excellent for AC switching and phase control applications such as heating, lighting, and motor speed controls.

Typical applications are AC solid-state switches, light dimmers, power tools, home/brown goods and white goods appliances.

Alternistor Triacs (no snubber required) are used in applications with extremely inductive loads requiring highest commutation performance.

Internally constructed isolated packages are offered for ease of heat sinking with highest isolation voltage.

Absolute Maximum Ratings — Sensitive Triac (4 Quadrants)

Symbol	Parameter			Value	Unit
$I_{T(RMS)}$	RMS on-state current (full sine wave)	Lxx06Ly	T_C = 80°C	6	A
		Lxx06Vy / Lxx06Dy/ Lxx06Ry	T_C = 85°C		
I_{TSM}	Non repetitive surge peak on-state current (full cycle, T_J initial = 25°C)	f = 50 Hz	t = 20 ms	50	A
		f = 60 Hz	t = 16.7 ms	60	
I^2t	I^2t Value for fusing	t_p = 8.3 ms		15	A^2s
di/dt	Critical rate of rise of on-state current I_G = 50mA with 0.1µs rise time	f = 120 Hz	T_J = 110°C	70	A/µs
I_{GTM}	Peak gate trigger current	$t_p \le 10$ µs	T_J = 110°C	1.6	A
$P_{G(AV)}$	Average gate power dissipation		T_J = 110°C	0.4	W
T_{stg}	Storage temperature range			-40 to 150	°C
T_J	Operating junction temperature range			-40 to 110	°C

Note: xx = voltage, y = sensitivity

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Absolute Maximum Ratings — Standard Triac

Symbol	Parameter			Value	Unit
$I_{T(RMS)}$	RMS on-state current (full sine wave)	Qxx06Ry / Qxx06Ny	T_C = 95°C	6	A
		Qxx06Ly	T_C = 90°C		
I_{TSM}	Non repetitive surge peak on-state current (full cycle, T_J initial = 25°C)	f = 50 Hz	t = 20 ms	65	A
		f = 60 Hz	t = 16.7 ms	80	
I^2t	I^2t Value for fusing	t_p = 8.3 ms		26.5	A^2s
di/dt	Critical rate of rise of on-state current I_G = 200mA with 0.1µs rise time	f = 120 Hz	T_J = 125°C	70	A/µs
I_{GTM}	Peak gate trigger current	$t_p \le 10$ µs; $I_{GT} \le I_{GTM}$	T_J = 125°C	1.6	A
$P_{G(AV)}$	Average gate power dissipation		T_J = 125°C	0.5	W
T_{stg}	Storage temperature range			-40 to 150	°C
T_J	Operating junction temperature range			-40 to 125	°C

Note: xx = voltage, y = sensitivity

Absolute Maximum Ratings — Alternistor Triac (3 Quadrants)

Symbol	Parameter				Value	Unit
$I_{T(RMS)}$	RMS on-state current (full sine wave)	Qxx06LHy		T_C = 95°C	6	A
		Qxx06RHy / Qxx06NHy Qxx06VHy / Qxx06DHy		T_C = 100°C		
I_{TSM}	Non repetitive surge peak on-state current (full cycle, T_J initial = 25°C)	f = 50 Hz	t = 20 ms	Qxx06VHy Qxx06DHy	55	A
				Qxx06LHy Qxx06RHy Qxx06NHy	80	
		f = 60 Hz	t = 16.7 ms	Qxx06VHy Qxx06DHy	65	
				Qxx06LHy Qxx06RHy Qxx06NHy	85	
I^2t	I^2t Value for fusing	t_p = 8.3 ms		Qxx06VHy Qxx06DHy	17.5	A^2s
				Qxx06LHy Qxx06RHy Qxx06NHy	30	
di/dt	Critical rate of rise of on-state current	f = 120 Hz		T_J = 125°C	70	A/µs
I_{GTM}	Peak gate trigger current	$t_p \le 10$ µs; $I_{GT} \le I_{GTM}$		T_J = 125°C	1.6	A
$P_{G(AV)}$	Average gate power dissipation			T_J = 125°C	0.5	W
T_{stg}	Storage temperature range				-40 to 150	°C
T_J	Operating junction temperature range				-40 to 125	°C

Note: xx = voltage, y = sensitivity

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Electrical Characteristics (T_J = 25°C, unless otherwise specified) — Sensitive Triac (4 Quadrants)

Symbol	Test Conditions	Quadrant		Value			Unit
				Lxx06x5	Lxx06x6	Lxx06x8	
I_{GT}	V_D = 12V R_L = 60 Ω	I – II – III IV	MAX.	5 5	5 10	10 20	mA
V_{GT}		ALL	MAX.	1.3			V
V_{GD}	$V_D = V_{DRM}$ R_L = 3.3 kΩ T_J = 110°C	ALL	MIN.	0.2			V
I_H	I_T = 100mA		MAX.	10	10	20	mA
dv/dt	$V_D = V_{DRM}$ Gate Open T_J = 100°C	400V	TYP.	30	30	40	V/µs
		600V		20	20	30	
(dv/dt)c	(di/dt)c = 3.2 A/ms T_J = 110°C		TYP.	1	2	2	V/µs
t_{gt}	I_G = 2 x I_{GT} PW = 15µs I_T = 8.5 A(pk)		TYP.	3.0	3.0	3.2	µs

Electrical Characteristics (T_J = 25°C, unless otherwise specified) — Standard Triac

Symbol	Test Conditions	Quadrant		Value		Unit
				Qxx06x4	Qxx06x5	
I_{GT}	V_D = 12V R_L = 60 Ω	I – II – III IV	MAX. TYP.	25 50	50 75	mA
V_{GT}		I – II – III	MAX.	1.3		V
V_{GD}	$V_D = V_{DRM}$ R_L = 3.3 kΩ T_J = 125°C	ALL	MIN.	0.2		V
I_H	I_T = 200mA		MAX.	50	50	mA
dv/dt	$V_D = V_{DRM}$ Gate Open T_J = 125°C	400V	MIN.	120		V/µs
		600V			100	
		800V			85	
	$V_D = V_{DRM}$ Gate Open T_J = 100°C	1000V			100	
(dv/dt)c	(di/dt)c = 3.2 A/ms T_J = 125°C		TYP.	4	4	V/µs
t_{gt}	I_G = 2 x I_{GT} PW = 15µs I_T = 8.5 A(pk)		TYP.	3.0	3.0	µs

Electrical Characteristics (T_J = 25°C, unless otherwise specified) — Alternistor Triac (3 Quadrants)

Symbol	Test Conditions	Quadrant			Value		Unit
					Qxx06xH3	Qxx06xH4	
I_{GT}	V_D = 12V R_L = 60 Ω	I – II – III	MAX.		10	35	mA
V_{GT}		I – II – III	MAX.		1.3		V
V_{GD}	$V_D = V_{DRM}$ R_L = 3.3 kΩ T_J = 125°C	I – II – III	MIN.		0.2		V
I_H	I_T = 100mA		MAX.		15	35	mA
dv/dt	$V_D = V_{DRM}$ Gate Open T_J = 125°C	Qxx06VHy / Qxx06DHy	MIN.	400V	75	400	V/µs
				600V	50	300	
				800V		200	
		Qxx06LHy / Qxx06RHy / Qxx06NHy		400V	75	450	
				600V	50	350	
				800V		250	
	$V_D = V_{DRM}$ Gate Open T_J = 100°C	ALL		1000V		150	
(dv/dt)c	(di/dt)c = 3.2 A/ms T_J = 125°C		MIN.		20	25	V/µs
t_{gt}	I_G = 2 x I_{GT} PW = 15µs I_T = 8.5 A(pk)		TYP.		4.0	4.0	µs

Note: xx = voltage, x = package, y = sensitivity

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Static Characteristics

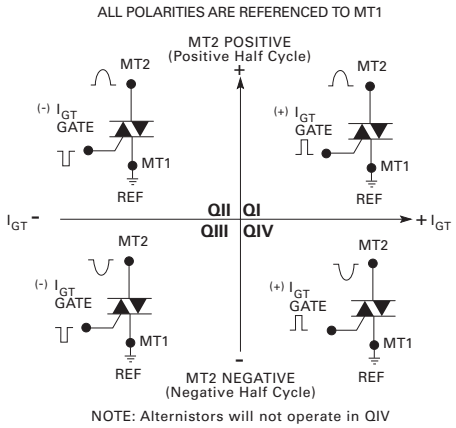
Symbol	Test Conditions					Value	Unit
V_{TM}	I_{TM} = 11.3A t_p = 380 µs				MAX.	1.60	V
I_{DRM} / I_{RRM}	$V_{DRM} = V_{RRM}$	Lxx06xy	T_J = 25°C	400 - 600V	MAX.	20	µA
			T_J = 110°C	400 - 600V		0.5	mA
		Qxx06xy	T_J = 25°C	400 - 1000V		50	µA
			T_J = 125°C	400 - 800V		2	mA
			T_J = 100°C	1000V		3	
		Qxx06xHy	T_J = 25°C	400 - 800V		10	µA
				1000V		20	
			T_J = 125°C	400 - 800V		3	mA
			T_J = 100°C	1000V		2	

Thermal Resistances

Symbol	Parameter		Value	Unit
$R_{\theta(J-C)}$	Junction to case (AC)	L/Qxx06Ryy / L/Qxx06Nyy	1.8	°C/W
		L/Qxx06Lyy	3.3	
		L/Qxx06Vyy / L/Qxx06Dyy	3.2	
$R_{\theta(J-A)}$	Junction to ambient	L/Qxx06Ryy	45	°C/W
		L/Qxx06Lyy	50	
		L/Qxx06Vyy	70	

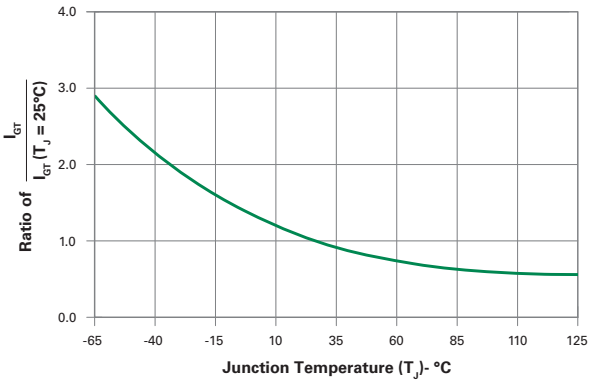
Note: xx = voltage, x = package, y = sensitivity, yy = type & sensitivity

Figure 1: Definition of Quadrants



Note: Alternistors will not operate in QIV

Figure 2: Normalized DC Gate Trigger Current for All Quadrants vs. Junction Temperature



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Figure 3: Normalized DC Holding Current vs. Junction Temperature

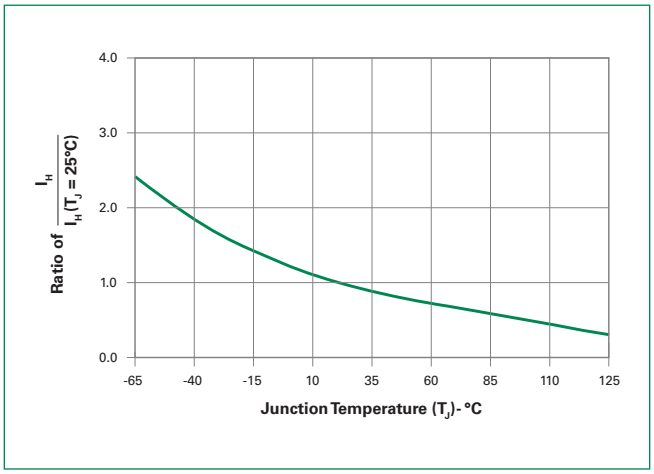


Figure 4: Normalized DC Gate Trigger Voltage for All Quadrants vs. Junction Temperature

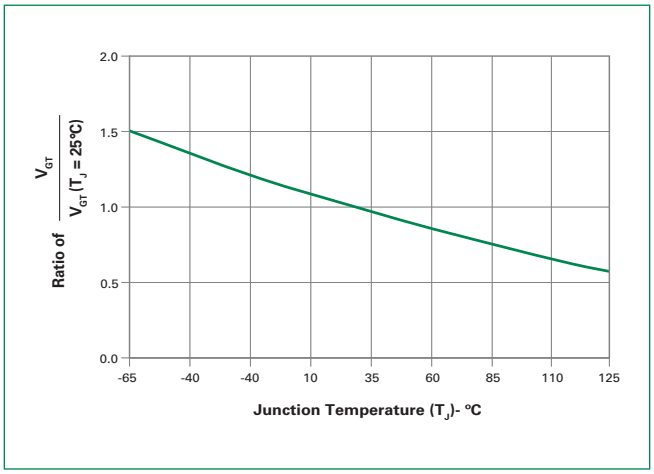


Figure 5: Power Dissipation (Typical) vs. RMS On-State Current

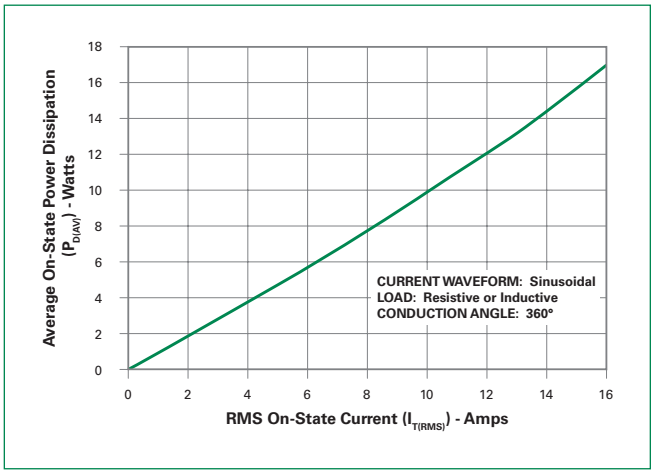


Figure 6: Maximum Allowable Case Temperature vs. On-State Current (Sensitive Triac)

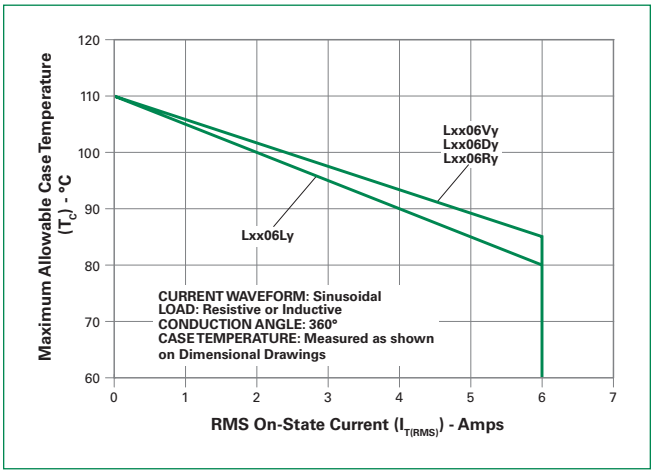


Figure 7: Maximum Allowable Case Temperature vs. On-State Current (Standard Triac)

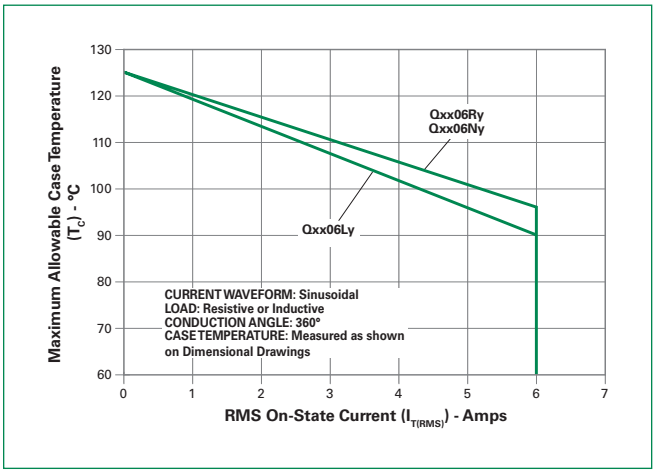
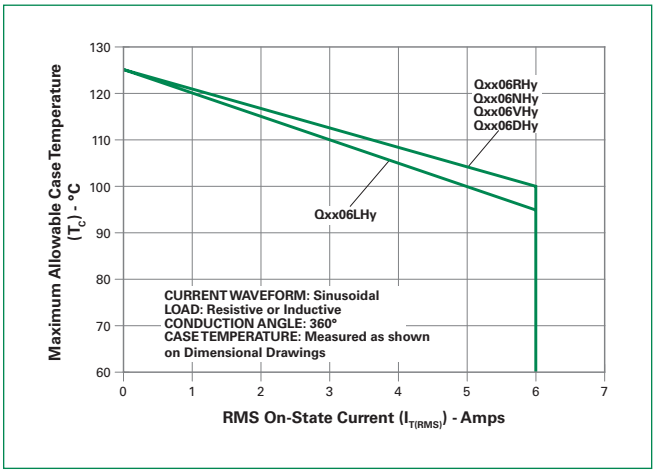


Figure 8: Maximum Allowable Case Temperature vs. On-State Current (Alternistor Triac)



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Figure 9: Maximum Allowable Ambient Temperature vs. On-State Current (Sensitive / Standard Triac)

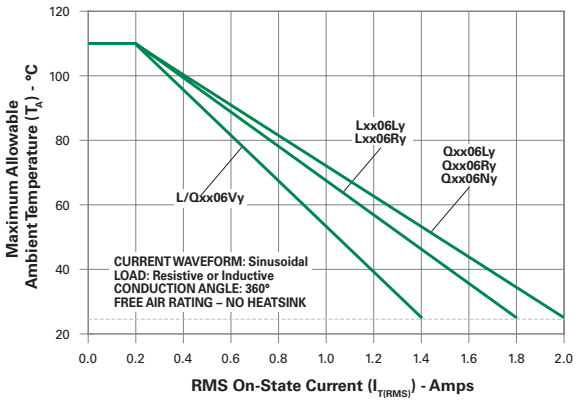


Figure 10: Maximum Allowable Ambient Temperature vs. On-State Current (Alternistor Triac)

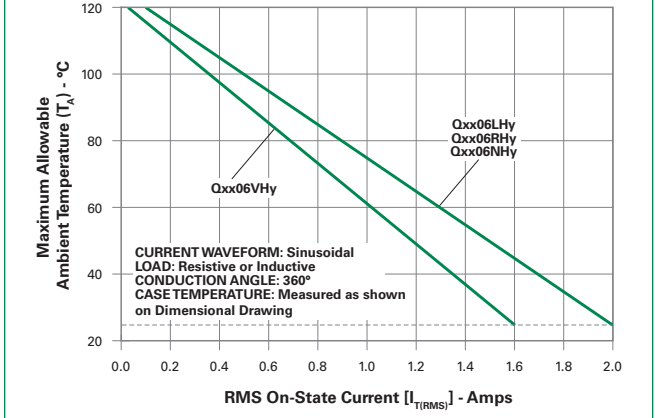
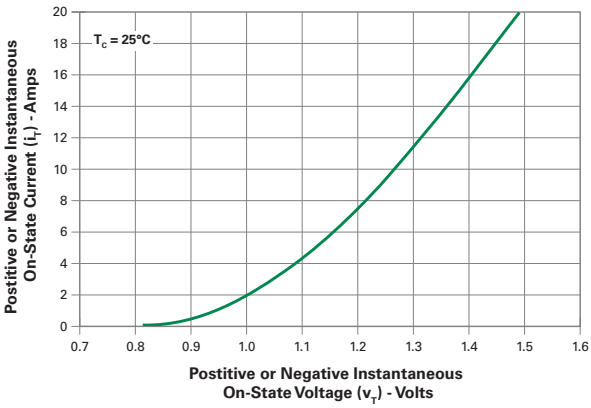
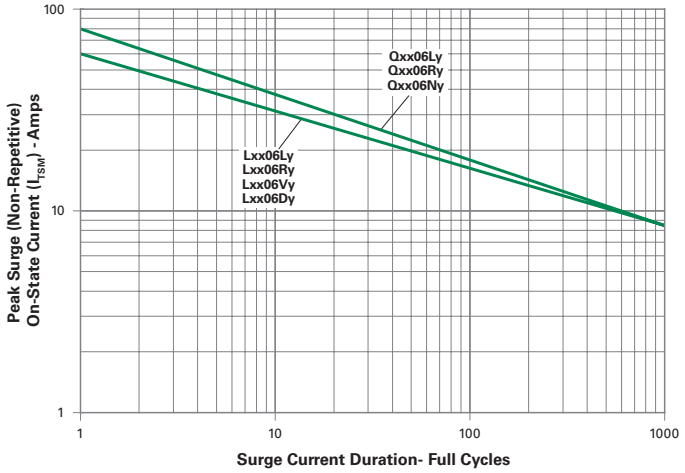


Figure 11: On-State Current vs. On-State Voltage (Typical)



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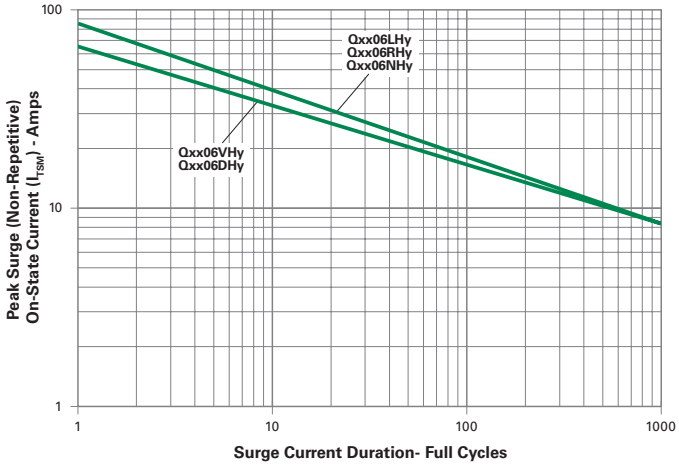
Figure 12: Surge Peak On-State Current vs. Number of Cycles (Sensitive / Standard Triac)



SUPPLY FREQUENCY: 60 Hz Sinusoidal
LOAD: Resistive
RMS On-State Current: [$I_{T(RMS)}$]: Maximum Rated Value at Specified Case Temperature

Notes:
1. Gate control may be lost during and immediately following surge current interval.
2. Overload may not be repeated until junction temperature has returned to steady-state rated value.

Figure 13: Surge Peak On-State Current vs. Number of Cycles (Alternistor Triac)



SUPPLY FREQUENCY: 60 Hz Sinusoidal
LOAD: Resistive
RMS On-State Current: [$I_{T(RMS)}$]: Maximum Rated Value at Specified Case Temperature

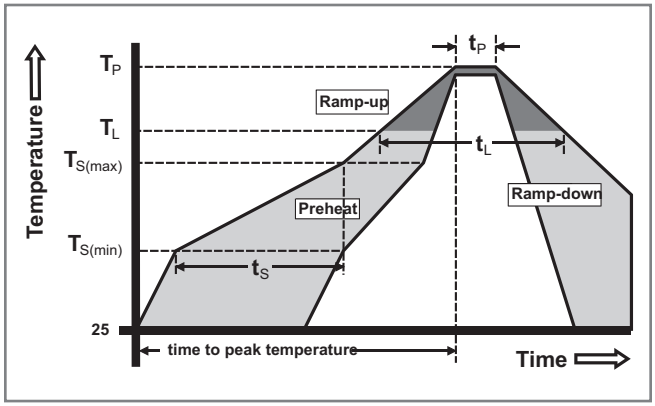
Notes:
1. Gate control may be lost during and immediately following surge current interval.
2. Overload may not be repeated until junction temperature has returned to steady-state rated value.

Note: xx = voltage, x = package, y = sensitivity, yy = type & sensitivity

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Soldering Parameters

Reflow Condition		Pb – Free assembly
Pre Heat	-Temperature Min ($T_{s(min)}$)	150°C
	-Temperature Max ($T_{s(max)}$)	200°C
	-Time (min to max) (t_s)	60 – 180 secs
Average ramp up rate (Liquidus Temp) (T_L) to peak		5°C/second max
$T_{S(max)}$ to T_L - Ramp-up Rate		5°C/second max
Reflow	-Temperature (T_L) (Liquidus)	217°C
	-Temperature (t_L)	60 – 150 seconds
Peak Temperature (T_P)		$260^{+0/-5}$ °C
Time within 5°C of actual peak Temperature (t_p)		20 – 40 seconds
Ramp-down Rate		5°C/second max
Time 25°C to peak Temperature (T_P)		8 minutes Max.
Do not exceed		280°C



Physical Specifications

Terminal Finish	100% Matte Tin-plated
Body Material	UL recognized epoxy meeting flammability classification 94V-0
Terminal Material	Copper Alloy

Design Considerations

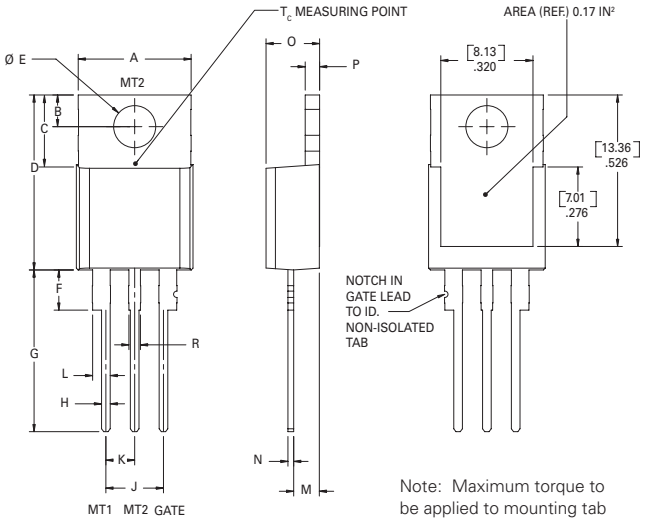
Careful selection of the correct device for the application's operating parameters and environment will go a long way toward extending the operating life of the Thyristor. Good design practice should limit the maximum continuous current through the main terminals to 75% of the device rating. Other ways to ensure long life for a power discrete semiconductor are proper heat sinking and selection of voltage ratings for worst case conditions. Overheating, overvoltage (including dv/dt), and surge currents are the main killers of semiconductors. Correct mounting, soldering, and forming of the leads also help protect against component damage.

Environmental Specifications

Test	Specifications and Conditions
AC Blocking (V_{DRM})	MIL-STD-750, M-1040, Cond A Applied Peak AC voltage @ 125°C for 1008 hours
Temperature Cycling	MIL-STD-750, M-1051, 100 cycles; -40°C to +150°C; 15-min dwell-time
Temperature/ Humidity	EIA / JEDEC, JESD22-A101 1008 hours; 320V - DC: 85°C; 85% rel humidity
High Temp Storage	MIL-STD-750, M-1031, 1008 hours; 150°C
Low-Temp Storage	1008 hours; -40°C
Thermal Shock	MIL-STD-750, M-1056 10 cycles; 0°C to 100°C; 5-min dwell-time at each temperature; 10 sec (max) transfer time between temperature
Autoclave	EIA / JEDEC, JESD22-A102 168 hours (121°C at 2 ATMs) and 100% R/H
Resistance to Solder Heat	MIL-STD-750 Method 2031
Solderability	ANSI/J-STD-002, category 3, Test A
Lead Bend	MIL-STD-750, M-2036 Cond E

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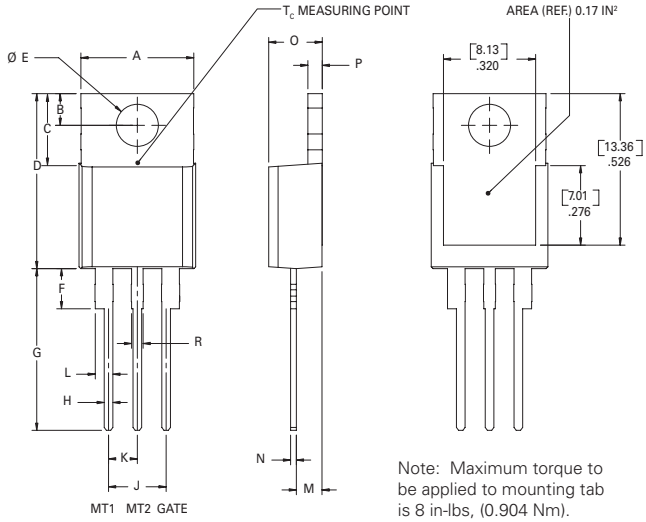
Dimensions — TO-220AB (R-Package) — Non-Isolated Mounting Tab Common with Center Lead



Note: Maximum torque to be applied to mounting tab is 8 in-lbs, (0.904 Nm).

Dimension	Inches		Millimeters	
	Min	Max	Min	Max
A	0.380	0.420	9.65	10.67
B	0.105	0.115	2.67	2.92
C	0.230	0.250	5.84	6.35
D	0.590	0.620	14.99	15.75
E	0.142	0.147	3.61	3.73
F	0.110	0.130	2.79	3.30
G	0.540	0.575	13.72	14.61
H	0.025	0.035	0.64	0.89
J	0.195	0.205	4.95	5.21
K	0.095	0.105	2.41	2.67
L	0.060	0.075	1.52	1.91
M	0.085	0.095	2.16	2.41
N	0.018	0.024	0.46	0.61
O	0.178	0.188	4.52	4.78
P	0.045	0.060	1.14	1.52
R	0.038	0.048	0.97	1.22

Dimensions — TO-220AB (L-Package) — Isolated Mounting Tab

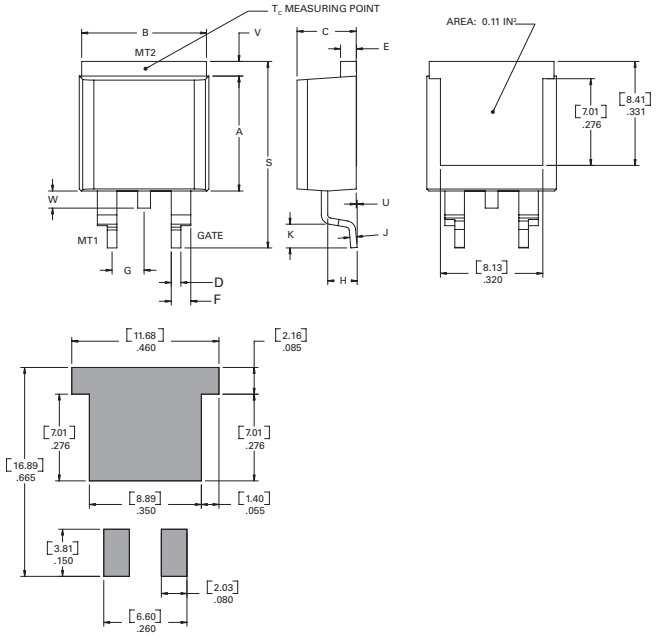


Note: Maximum torque to be applied to mounting tab is 8 in-lbs, (0.904 Nm).

Dimension	Inches		Millimeters	
	Min	Max	Min	Max
A	0.380	0.420	9.65	10.67
B	0.105	0.115	2.67	2.92
C	0.230	0.250	5.84	6.35
D	0.590	0.620	14.99	15.75
E	0.142	0.147	3.61	3.73
F	0.110	0.130	2.79	3.30
G	0.540	0.575	13.72	14.61
H	0.025	0.035	0.64	0.89
J	0.195	0.205	4.95	5.21
K	0.095	0.105	2.41	2.67
L	0.060	0.075	1.52	1.91
M	0.085	0.095	2.16	2.41
N	0.018	0.024	0.46	0.61
O	0.178	0.188	4.52	4.78
P	0.045	0.060	1.14	1.52
R	0.038	0.048	0.97	1.22

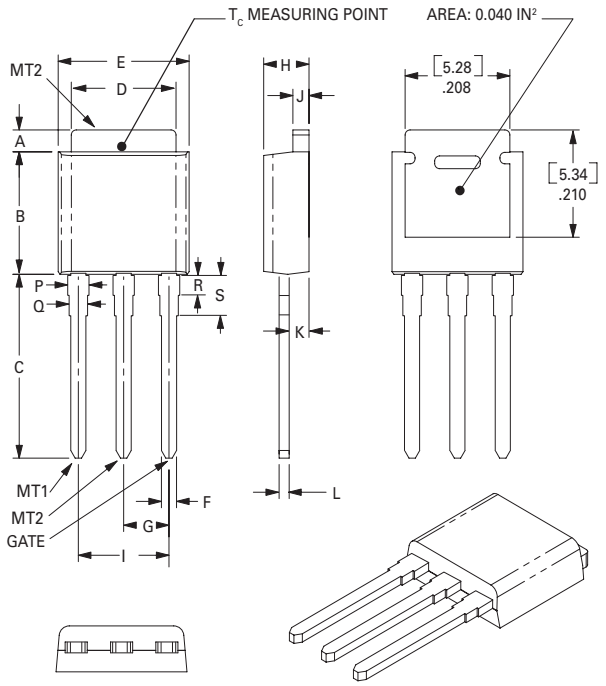
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Dimensions — TO-263AB (N-Package) — D²-PAK Surface Mount



Dimension	Inches		Millimeters	
	Min	Max	Min	Max
A	0.360	0.370	9.14	9.40
B	0.380	0.420	9.65	10.67
C	0.178	0.188	4.52	4.78
D	0.025	0.035	0.64	0.89
E	0.045	0.060	1.14	1.52
F	0.060	0.075	1.52	1.91
G	0.095	0.105	2.41	2.67
H	0.092	0.102	2.34	2.59
J	0.018	0.024	0.46	0.61
K	0.090	0.110	2.29	2.79
S	0.590	0.625	14.99	15.88
V	0.035	0.045	0.89	1.14
U	0.002	0.010	0.05	0.25
W	0.040	0.070	1.02	1.78

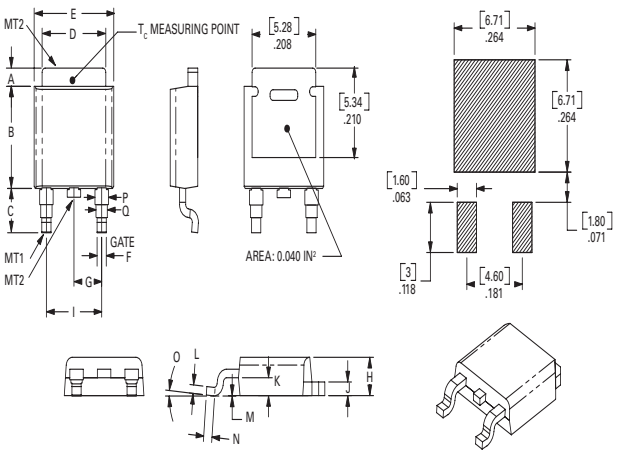
Dimensions — TO-251AA (V-Package) — V-PAK Through Hole



Dimension	Inches			Millimeters		
	Min	Typ	Max	Min	Typ	Max
A	0.040	0.044	0.050	1.02	1.11	1.27
B	0.235	0.242	0.245	5.97	6.15	6.22
C	0.350	0.361	0.375	8.89	9.18	9.53
D	0.205	0.208	0.213	5.21	5.29	5.41
E	0.255	0.262	0.265	6.48	6.66	6.73
F	0.027	0.031	0.033	0.69	0.80	0.84
G	0.087	0.090	0.093	2.21	2.28	2.36
H	0.085	0.092	0.095	2.16	2.34	2.41
I	0.176	0.180	0.184	4.47	4.57	4.67
J	0.018	0.020	0.023	0.46	0.51	0.58
K	0.038	0.040	0.044	0.97	1.01	1.12
L	0.018	0.020	0.023	0.46	0.52	0.58
P	0.042	0.047	0.052	1.06	1.20	1.32
Q	0.034	0.039	0.044	0.86	1.00	1.11
R	0.034	0.039	0.044	0.86	1.00	1.11
S	0.074	0.079	0.084	1.86	2.00	2.11

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Dimensions — TO-252AA (D-Package) — D-PAK Surface mount



Dimension	Inches			Millimeters		
	Min	Typ	Max	Min	Typ	Max
A	0.040	0.043	0.050	1.02	1.09	1.27
B	0.235	0.243	0.245	5.97	6.16	6.22
C	0.106	0.108	0.113	2.69	2.74	2.87
D	0.205	0.208	0.213	5.21	5.29	5.41
E	0.255	0.262	0.265	6.48	6.65	6.73
F	0.027	0.031	0.033	0.69	0.80	0.84
G	0.087	0.090	0.093	2.21	2.28	2.36
H	0.085	0.092	0.095	2.16	2.33	2.41
I	0.176	0.179	0.184	4.47	4.55	4.67
J	0.018	0.020	0.023	0.46	0.51	0.58
K	0.038	0.040	0.044	0.97	1.02	1.12
L	0.018	0.020	0.023	0.46	0.51	0.58
M	0.000	0.000	0.004	0.00	0.00	0.10
N	0.021	0.026	0.027	0.53	0.67	0.69
O	0°	0°	5°	0°	0°	5°
P	0.042	0.047	0.052	1.06	1.20	1.32
Q	0.034	0.039	0.044	0.86	1.00	1.11

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Product Selector

Part Number	Voltage				Gate Sensitivity Quadrants		Type	Package
	400V	600V	800V	1000V	I - II - III	IV		
Lxx06L5	X	X			5 mA	5 mA	Sensitive Triac	TO-220L
Lxx06D5	X	X			5 mA	5 mA	Sensitive Triac	TO-252 D-PAK
Lxx06R5	X	X			5mA	5mA	Sensitive Triac	TO-220R
Lxx06V5	X	X			5 mA	5 mA	Sensitive Triac	TO-251 V-PAK
Lxx06L6	X	X			5 mA	10 mA	Sensitive Triac	TO-220L
Lxx06D6	X	X			5 mA	10 mA	Sensitive Triac	TO-252 D-PAK
Lxx06R6	X	X			5mA	10mA	Sensitive Triac	TO-220R
Lxx06V6	X	X			5 mA	10 mA	Sensitive Triac	TO-251 V-PAK
Lxx06L8	X	X			10 mA	20 mA	Sensitive Triac	TO-220L
Lxx06D8	X	X			10 mA	20 mA	Sensitive Triac	TO-252 D-PAK
Lxx06R8	X	X			10mA	20mA	Sensitive Triac	TO-220R
Lxx06V8	X	X			10 mA	20 mA	Sensitive Triac	TO-251 V-PAK
Qxx06VH3	X	X			10 mA		Alternistor Triac	TO-251 V-PAK
Qxx06DH3	X	X			10 mA		Alternistor Triac	TO-252 D-PAK
Qxx06L4	X				25 mA		Standard Triac	TO-220L
Qxx06R4	X				25 mA		Standard Triac	TO-220R
Qxx06N4	X				25 mA		Standard Triac	TO-263 D²-PAK
Qxx06RH3	X	X			10mA		Alternistor Triac	TO-220R
Qxx06LH4	X	X	X	X	35 mA		Alternistor Triac	TO-220L
Qxx06RH4	X	X	X	X	35 mA		Alternistor Triac	TO-220R
Qxx06VH4	X	X	X	X	35 mA		Alternistor Triac	TO-251 V-PAK
Qxx06DH4	X	X	X	X	35 mA		Alternistor Triac	TO-252 D-PAK
Qxx06NH4	X	X	X	X	35 mA		Alternistor Triac	TO-263 D²-PAK
Qxx06L5		X	X	X	50 mA		Standard Triac	TO-220L
Qxx06R5		X	X	X	50 mA		Standard Triac	TO-220R
Qxx06N5		X	X	X	50 mA		Standard Triac	TO-263 D²-PAK

Packing Options

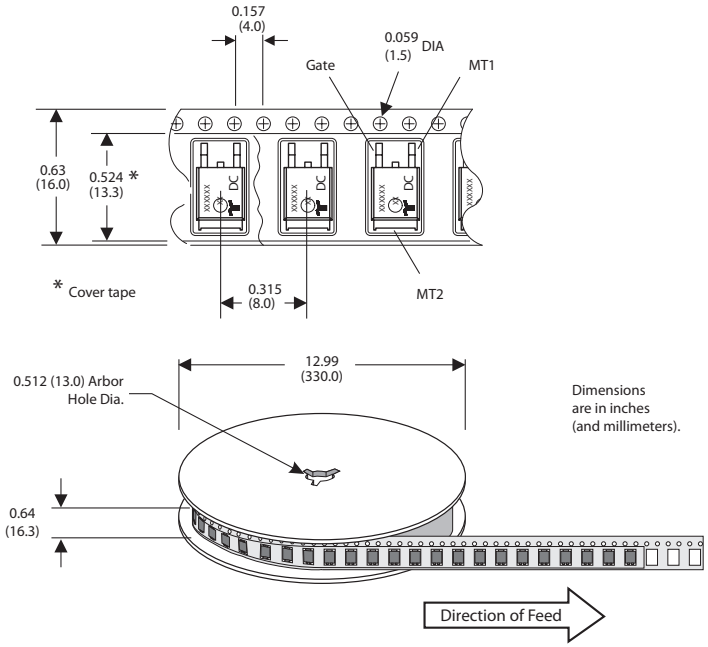
Part Number	Marking	Weight	Packing Mode	Base Quantity
Lxx06L/Ry	Lxx06L/Ry	2.2 g	Bulk	500
Lxx06L/RyTP	Lxx06L/Ry	2.2 g	Tube Pack	500 (50 per tube)
Lxx06DyTP	Lxx06Dy	0.3 g	Tube	750 (75 per tube)
Lxx06DyRP	Lxx06Dy	0.3 g	Embossed Carrier	2500
Lxx06VyTP	Lxx06Vy	0.4 g	Tube	750 (75 per tube)
Qxx06L/Ryy	Qxx06L/Ryy	2.2 g	Bulk	500
Qxx06L/RyyTP	Qxx06L/Ryy	2.2 g	Tube Pack	500 (50 per tube)
Qxx06NyyTP	Qxx06Nyy	1.6 g	Tube	500 (50 per tube)
Qxx06NyyRP	Qxx06Nyy	1.6 g	Embossed Carrier	500
Qxx06DyyTP	Qxx06Dyy	0.3 g	Tube	750 (75 per tube)
Qxx06DyyRP	Qxx06Dyy	0.3 g	Embossed Carrier	2500
Qxx06VyyTP	Qxx06Vyy	0.4 g	Tube	750 (75 per tube)

Note: xx = voltage; yy = sensitivity

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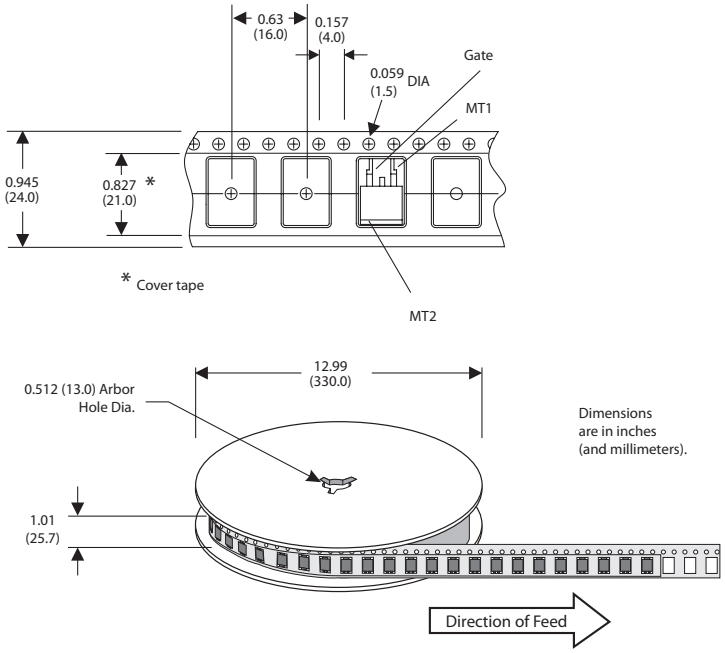
TO-252 Embossed Carrier Reel Pack (RP) Specifications

Meets all EIA-481-2 Standards



TO-263 Embossed Carrier Reel Pack (RP) Specifications

Meets all EIA-481-2 Standards



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Part Numbering System

Q 60 06 L H4 56

DEVICE TYPE
L : Sensitive Triac
Q : Triac or Alternistor

VOLTAGE RATING
40 : 400V
60 : 600V
80 : 800V
K0 : 1000V

CURRENT
06: 6A

PACKAGE TYPE
L : TO-220 Isolated
R : TO-220 Non-Isolated
N: TO-263 (D^2PAK)
V : TO-251 (VPAK)
D : TO-252 (DPAK)

SENSITIVITY & TYPE
Sensitive Triac:
3 : 3 mA (QI, II, III, IV)
5 : 5 mA (QI, II, III, IV)
6 : 5 mA (QI, II, III)
10 mA (QIV)
8 : 10 mA (QI, II, III)
20 mA (QIV)
Standard Triac:
4 : 25 mA (QI, II, III)
5 : 50 mA (QI, II, III)
Alternistor Triac:
H3 : 10 mA (QI, II, III)
H4 : 35 mA (QI, II, III)

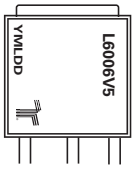
LEAD FORM DIMENSIONS
xx : Lead Form Option

Part Marking System

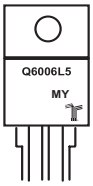
TO-220 AB – (R Package)
TO-263 AB – (N Package)



TO-252AA – (D Package)
TO-251AA – (V Package)



TO-220 AB – (L Package)



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Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

Данный компонент на территории Российской Федерации

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Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

http://moschip.ru/get-element

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