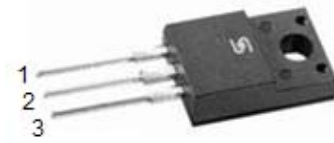


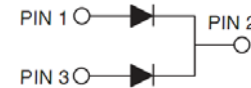
Dual Common Cathode Schottky Rectifier

FEATURES

- Low power loss, high efficiency
- Guardring for overvoltage protection
- High surge current capability
- UL Recognized File # E-326243
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition



ITO-220AB



MECHANICAL DATA

Case: ITO-220AB

Molding compound, UL flammability classification rating 94V-0

Base P/N with suffix "G" on packing code - halogen-free

Base P/N with prefix "H" on packing code - AEC-Q101 qualified

Terminal: Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 1A whisker test

with prefix "H" on packing code meet JESD 201 class 2 whisker test

Polarity: As marked

Mounting torque: 5 in-lbs maximum

Weight: 1.7 g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	MBRF30L120CT		UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	120		V
Maximum RMS voltage	V _{RMS}	84		V
Maximum DC blocking voltage	V _{DC}	120		V
Maximum average forward rectified current	I _{F(AV)}	30		A
Peak repetitive forward current (Rated VR, Square wave, 20KHz)	I _{FRM}	30		A
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	200		A
Peak repetitive reverse surge current (Note 1)	I _{RRM}	1		A
Maximum instantaneous forward voltage (Note 2) I _F = 15A, T _J =25°C I _F = 15A, T _J =125°C I _F = 30A, T _J =25°C I _F = 30A, T _J =125°C	V _F	TYP	MAX	V
		0.81	0.88	
		0.66	0.75	
		0.89	0.95	
		0.76	0.82	
Maximum reverse current @ rated VR T _J =25 °C T _J =125 °C	I _R	TYP	MAX	mA
		1.1	20	
		1.7	25	
Voltage rate of change (Rated V _R)	dV/dt	10000		V/μs
Typical thermal resistance	R _{θJC}	5		°C/W
Operating junction temperature range	T _J	- 55 to +150		°C
Storage temperature range	T _{STG}	- 55 to +150		°C

Note 1: tp = 2.0 μs, 1.0KHz

Note 2: Pulse test with PW=300μs, 1% duty cycle

ORDERING INFORMATION					
PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING
MBRF30L120CT	Prefix "H"	C0	Suffix "G"	ITO-220AB	50 / Tube

EXAMPLE					
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION
MBRF30L120CT C0	MBRF30L120CT		C0		
MBRF30L120CT C0G	MBRF30L120CT		C0	G	Green compound
MBRF30L120CTHC0	MBRF30L120CT	H	C0		AEC-Q101 qualified

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

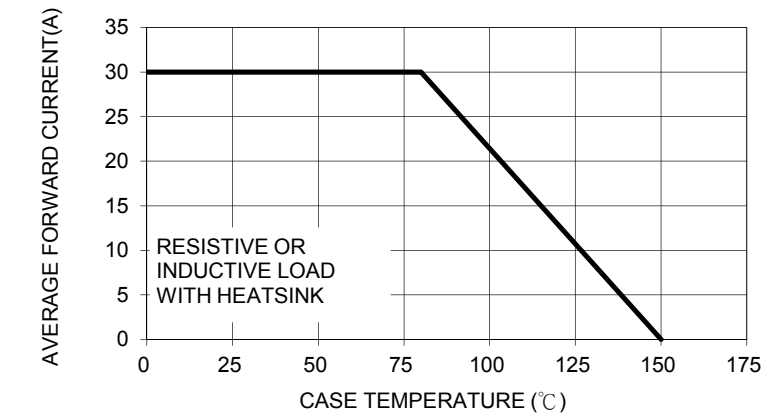


FIG. 2 MAXIMUM FORWARD SURGE CURRENT

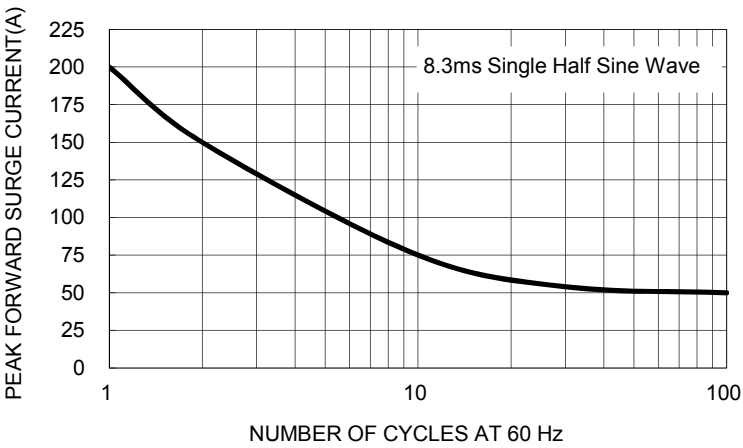


FIG. 3 TYPICAL FORWARD CHARACTERISTICS

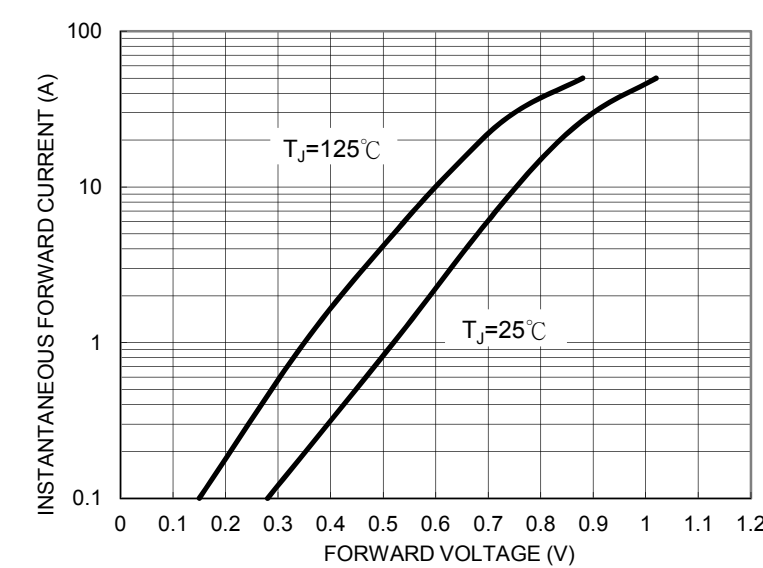


FIG. 4 TYPICAL REVERSE CHARACTERISTICS

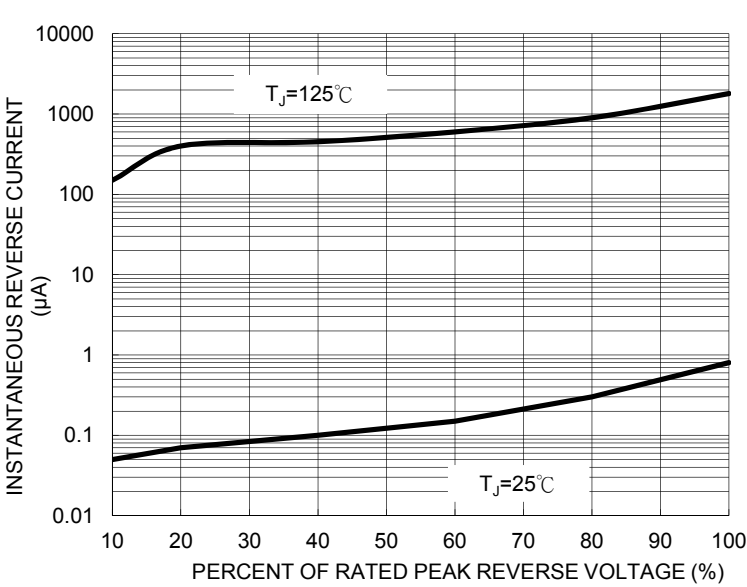


FIG. 5 TYPICAL JUNCTION CAPACITANCE

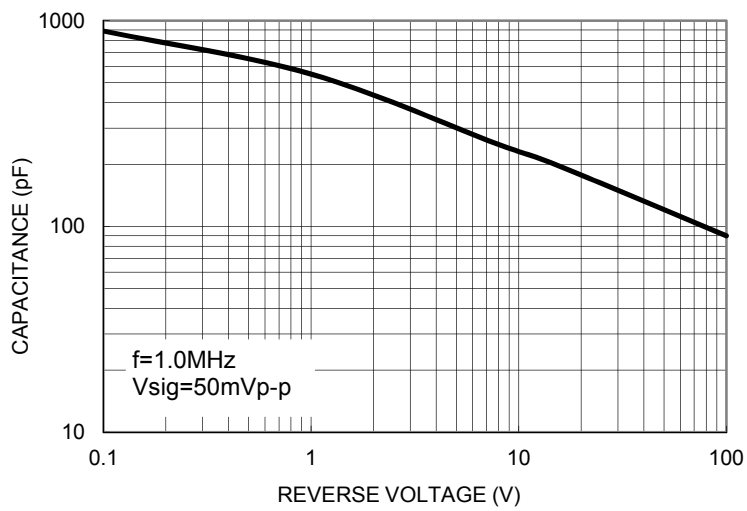
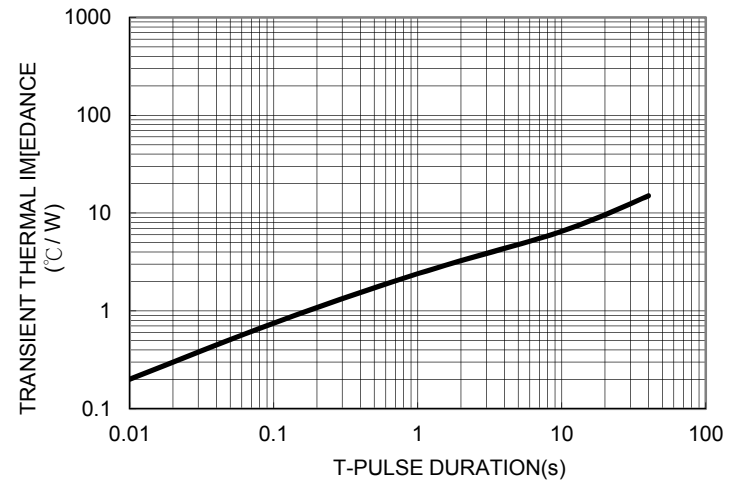
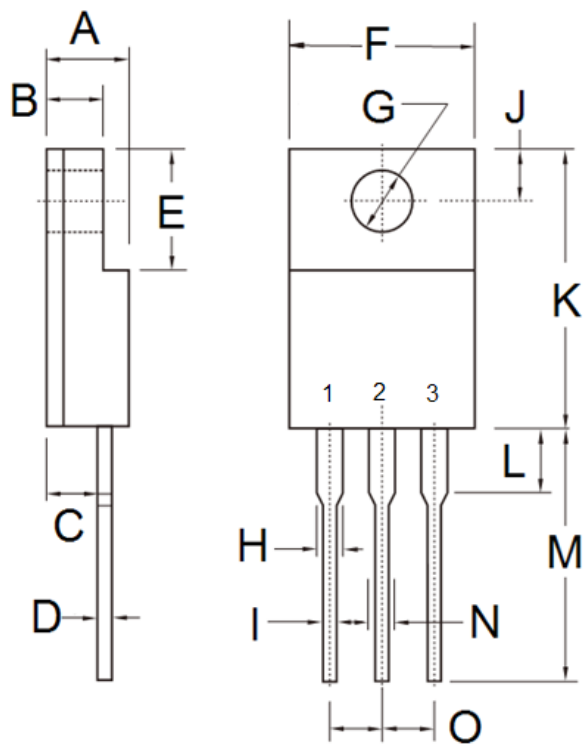


FIG. 6 TYPICAL TRANSIENT THERMAL IMPEDANCE



PACKAGE OUTLINE DIMENSIONS



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	4.30	4.70	0.169	0.185
B	2.50	3.16	0.098	0.124
C	2.30	2.96	0.091	0.117
D	0.46	0.76	0.018	0.030
E	6.30	6.90	0.248	0.272
F	9.60	10.30	0.378	0.406
G	3.00	3.40	0.118	0.134
H	0.95	1.45	0.037	0.057
I	0.50	0.90	0.020	0.035
J	2.40	3.20	0.094	0.126
K	14.80	15.50	0.583	0.610
L	-	4.10	-	0.161
M	12.60	13.80	0.496	0.543
N	-	1.80	-	0.071
O	2.41	2.67	0.095	0.105

MARKING DIAGRAM



P/N = Specific Device Code
G = Green Compound
YWW = Date Code
F = Factory Code

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