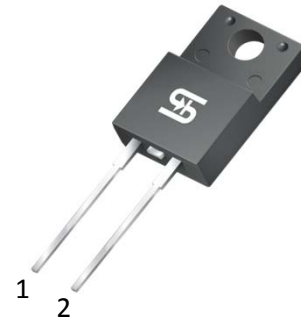


10A, 400V - 600V Isolated High Voltage Ultrafast Rectifiers

FEATURES

- High forward surge capability
- High reliability
- Ultra fast recovery time
- Low power loss
- 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



MECHANICAL DATA

Case: ITO-220AC

Molding compound, UL flammability classification rating 94V-0

Part no. with suffix "H" means AEC-Q101 qualified

Packing code with suffix "G" means green compound (halogen-free)

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

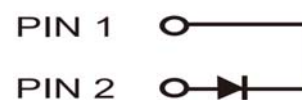
Meet JESD 201 class 2 whisker test

Polarity: As marked

Mounting torque: 0.56 Nm max.

Weight: 1.7 g (approximately)

ITO-220AC



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)				
PARAMETER	SYMBOL	UGF10G	UGF10J	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	400	600	V
Maximum RMS voltage	V _{RMS}	280	420	V
Maximum DC blocking voltage	V _{DC}	400	600	V
Maximum average forward rectified current	I _{F(AV)}	10		A
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	90		A
Maximum instantaneous forward voltage (Note 1) I _F =10A	V _F	1.25	2.00	V
Maximum reverse current @ rated V _R T _J =25°C T _J =125°C	I _R	5		μA
		100	200	
Maximum reverse recovery time (Note 2)	t _{rr}	25		ns
Typical thermal resistance (Note 3)	R _{θJC}	5		°C/W
Operating junction temperature range	T _J	- 55 to +175	- 55 to +150	°C
Storage temperature range	T _{STG}	- 55 to +175	- 55 to +150	°C

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

Note 2: Test conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A

Note 3: Mount on heatsink size of 4" x 6" x 0.25" Al-plate

ORDERING INFORMATION					
PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX (*)	PACKAGE	PACKING
UGF10x (Note 1)	H	C0	G	ITO-220AC	50 / Tube

Note 1: "x" defines voltage from 400V (UGF10G) to 600V (UGF10J)

*: Optional available

EXAMPLE					
EXAMPLE P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
UGF10GHC0G	UGF10G	H	C0	G	AEC-Q101 qualified Green compound

RATINGS AND CHARACTERISTICS CURVES

($T_A=25^{\circ}\text{C}$ unless otherwise noted)

FIG.1 FORWARD CURRENT DERATING CURVE

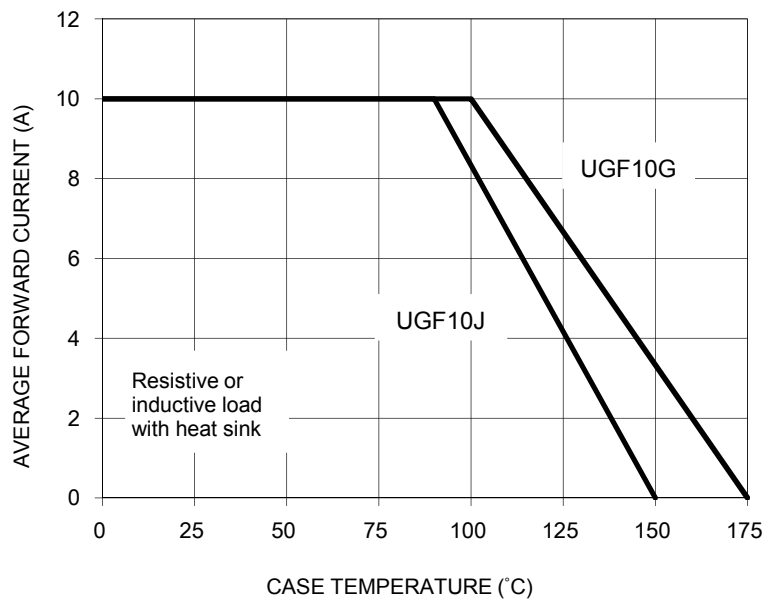


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

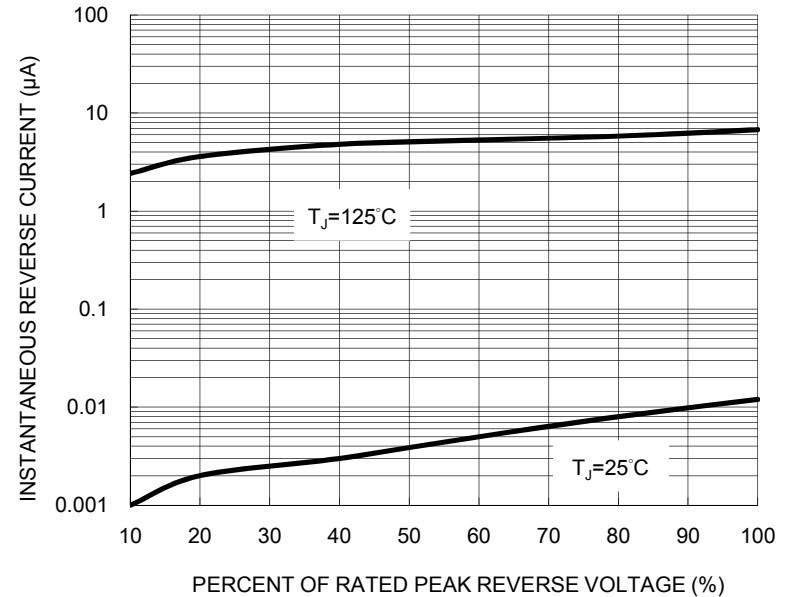


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

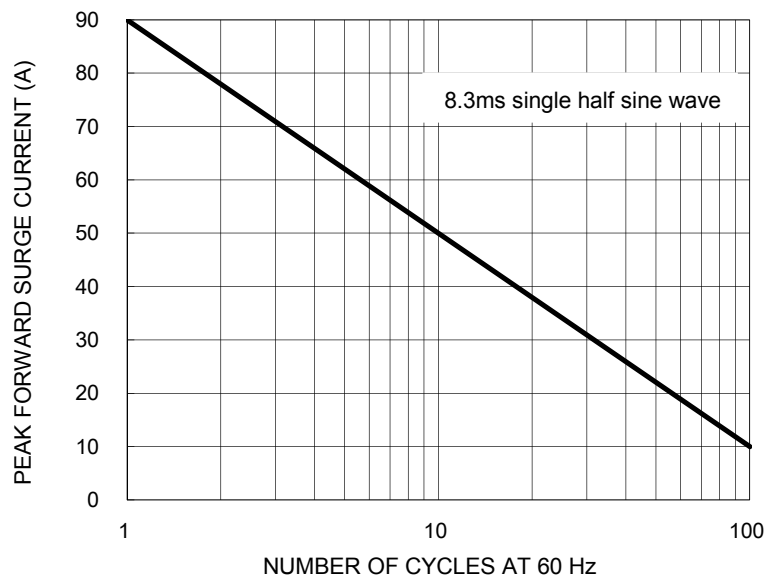


FIG. 4 TYPICAL FORWARD CHARACTERISTICS

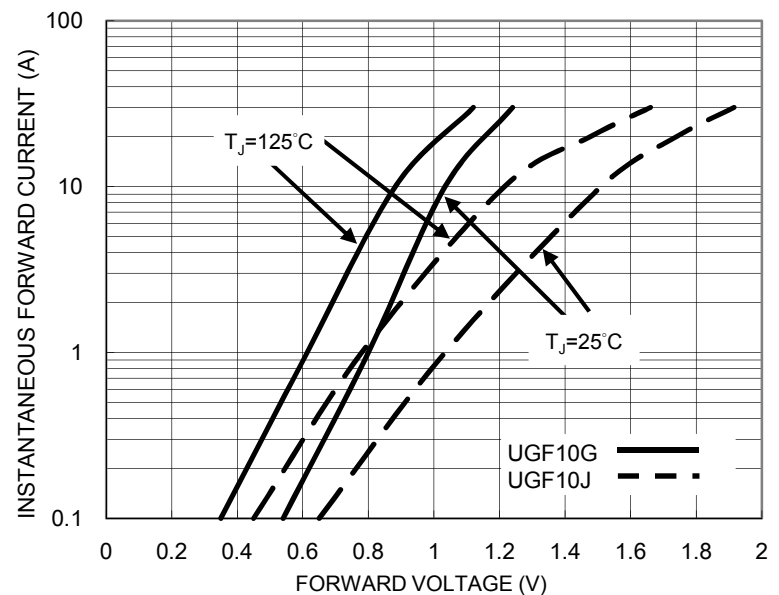
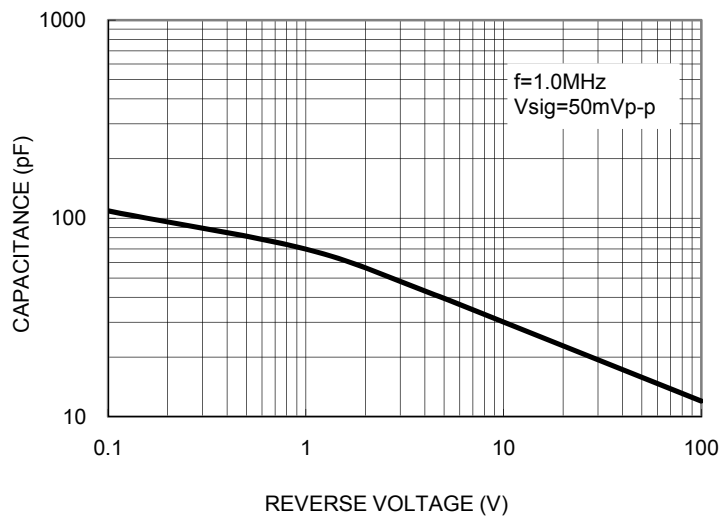
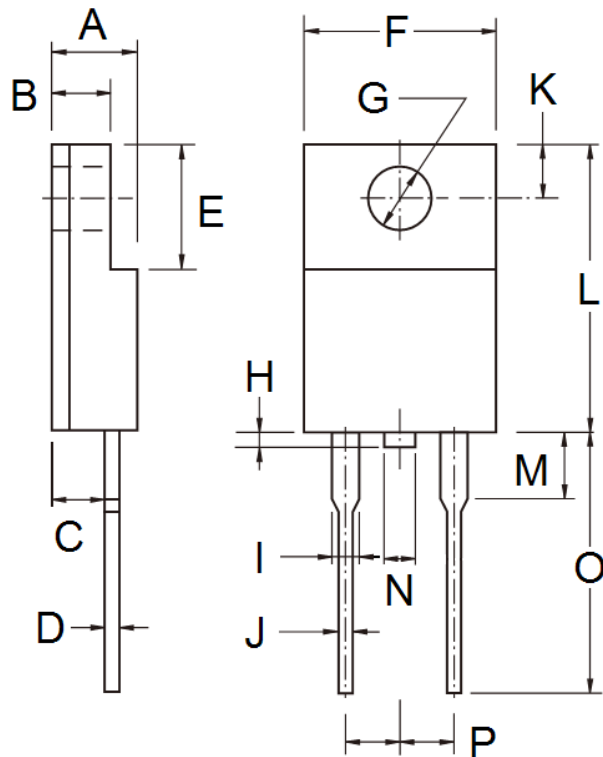


FIG. 5 TYPICAL JUNCTION CAPACITANCE

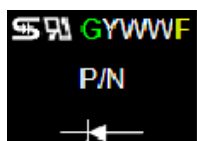


PACKAGE OUTLINE DIMENSIONS
ITO-220AC



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	4.30	4.70	0.169	0.185
B	2.50	3.10	0.098	0.122
C	2.30	2.90	0.091	0.114
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	0.00	1.60	0.000	0.063
I	0.95	1.45	0.037	0.057
J	0.50	0.90	0.020	0.035
K	2.40	3.20	0.094	0.126
L	14.80	15.50	0.583	0.610
M	-	4.10	-	0.161
N	-	1.80	-	0.071
O	12.60	13.80	0.496	0.543
P	4.95	5.20	0.195	0.205

MARKING DIAGRAM



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

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