



10A, 600V Isolated Ultra Fast Rectifier

FEATURES

- High efficiency, low VF
- High current capability
- High reliability
- High surge current capability
- 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-220AB

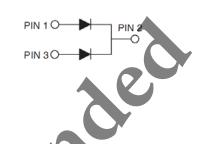
Molding compound: UL flammability classification rating 94V-0 Packing code with suffix "G" means green compound (halogen-free) **Terminal:** Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 2 whisker test

Polarity: As marked

Mounting torque: 0.56 Nm max. **Weight:** 1.7 g (approximately)

ITO-220AB



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)				
PARAMETER	SYMBOL	UGF10L08G	UNIT	
Maximum repetitive peak reverse voltage	V_{RRM}	600	V	
Maximum RMS voltage	V _{RMS}	420	V	
Maximum DC blocking voltage	V_{DC}	600	V	
Maximum average forward rectified current	I _{F(AV)}	10	А	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	70	А	
Maximum instantaneous forward voltage (Note 1) I_F = 5 A	V _F	1.7	V	
T _J =25°C	I _R	10	μА	
Maximum reverse current @ rated V _R		100		
Maximum reverse recovery time (Note 2)	t _{rr}	25	ns	
Typical thermal resistance	$R_{ heta JC}$	4	°C/W	
Operating junction temperature range	TJ	- 55 to +150	°C	
Storage temperature range	T _{STG}	- 55 to +150	°C	

Note 1: Pulse test with PW=300 μ s, 1% duty cycle Note 2: Test conditions: I_F =0.5A, I_R =1.0A, I_{RR} =0.25A



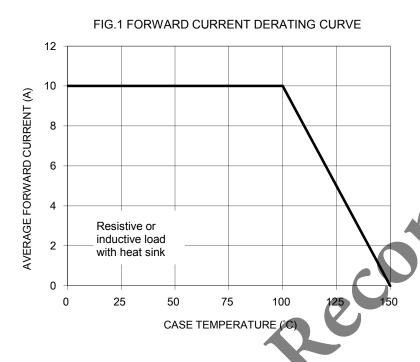
ORDERING INFORMATION						
PART NO.	PACKING CODE	CKING CODE PACKING CODE SUFFIX		PACKING		
UGF10L08G (Note 1)	C0	G	ITO-220AB	50 / Tube		

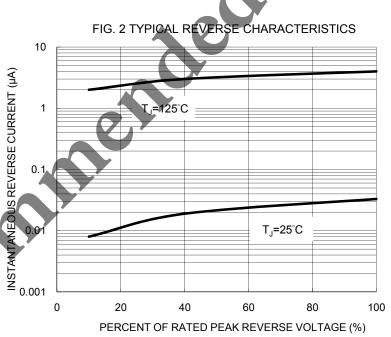
Note 1: Whole series with green compound

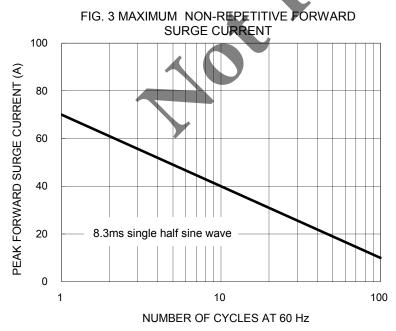
EXAMPLE					
EXAMPLE P/N PART N		PACKING CODE SUFFIX		DESCRIPTION	
UGF10L08G C0G	UGF10L08G	C0	G	Green compound	

RATINGS AND CHARACTERISTICS CURVES

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







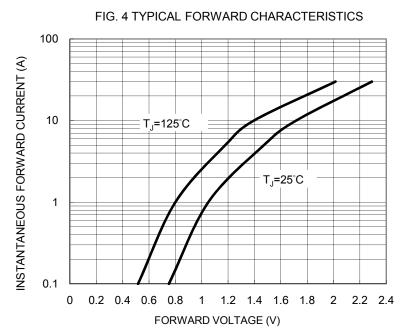
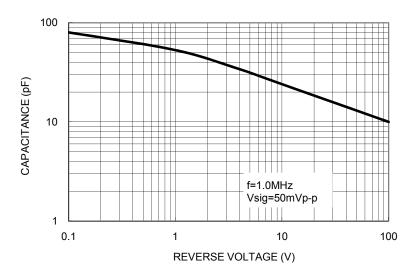
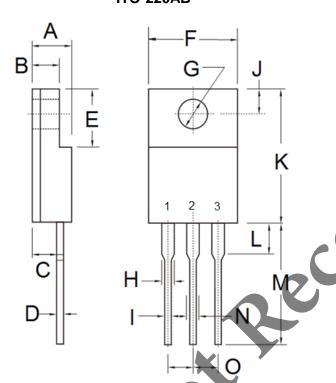




FIG. 5 TYPICAL JUNCTION CAPACITANCE



PACKAGE OUTLINE DIMENSIONS ITO-220AB



DIM.	Unit	(mm)	Unit (inch)		
DIIVI.	Min	Max	Min	Max	
Α	4.30	4.70	0.169	0.185	
В	2.50	3.16	0.098	0.124	
С	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	
F	0.95	1.45	0.037	0.057	
_	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	1	0.161	
М	12.60	13.80	0.496	0.543	
N	-	1.80	-	0.071	
0	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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