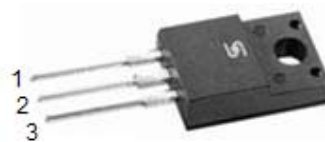


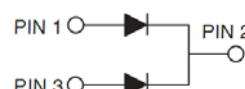
Isolated Ultra Fast Rectifiers

FEATURES

- UL Recognized File # E-326243
- 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 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, RoHS compliant

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 gram (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)								
PARAMETER	SYMBOL	UGF 1004G	UGF 1005G	UGF 1006G	UGF 1007G	UGF 1008G	UNIT	
Maximum repetitive peak reverse voltage	V _{RRM}	200	300	400	500	600	V	
Maximum RMS voltage	V _{RMS}	140	210	280	350	420	V	
Maximum DC blocking voltage	V _{DC}	200	300	400	500	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}	70						A
Maximum instantaneous forward voltage (Note 2) IF= 5 A	V _F	0.95	1.25		1.70		V	
Maximum reverse current @ rated VR T _J =25 °C T _J =125 °C	I _R	10 100						uA
Maximum reverse recovery time (Note 2)	T _{rr}	20			25		nS	
Typical thermal resistance	R _{θJC}	6.0					°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=300 usec, 1% Duty Cycle

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

ORDERING INFORMATION					
PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING
UGF100xG (Note 1)	Prefix "H"	C0	Suffix "G"	ITO-220AB	50 / Tube

Note 1: "xx" defines voltage from 200V (UGF1004G) to 600V (UGF1008G)

EXAMPLE					
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION
UGF1004G C0	UGF1004G		C0		
UGF1004G C0G	UGF1004G		C0	G	Green compound
UGF1004GH C0	UGF1004G	H	C0		AEC-Q101 qualified

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

