

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Super Fast Recovery Times For High Effieciency
- Halogen Free. "Green" Device (Note 2)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 12 °C/W Junction to Lead

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
UG3AB	UG3AB	50V	35V	50V
UG3BB	UG3BB	100V	70V	100V
UG3CB	UG3CB	150V	105V	150V
UG3DB	UG3DB	200V	140V	200V
UG3GB	UG3GB	400V	280V	400V

Electrical Characteristics @ 25°C Unless Otherwise Specified

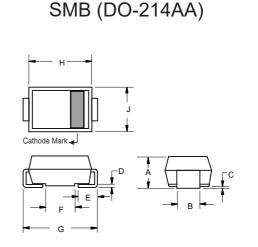
Average Forward Current	I _{F(AV)}	3.0A	T∟=90°C
Peak Forward Surge Current	I _{FSM}	90A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage			
UG3AB-UG3DB	V _F	0.92V	I _{FM} =3.0A;
UG3GB		1.25V	T _J =25⁰C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0μΑ 100μΑ	TJ=25⁰C; TJ=125⁰C
Maximum Reverse Recovery Time	T _{RR}	25ns	I _F =0.5A; I _R =1.0A; Irr=0.25A

*Pulse Test: Pulse Width 300 $\mu sec,$ Duty Cycle 2%

1. High Temperature Solder Exemptions Applied, See EU Directive Annex 7a.

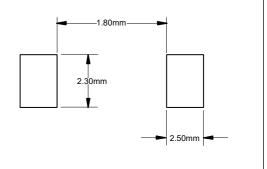
2. Halogen free "Green"products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

3 Amp Super Fast Recovery Silicon Rectifier 50 to 400 Volts



	DIMENSIONS						
DIM	INCHES		MM		NOTE		
	MIN	MAX	MIN	MAX	NOTE		
Α	0.079	0.103	2.00	2.62			
В	0.075	0.087	1.91	2.21			
С	0.002	0.008	0.05	0.20			
D	0.006	0.012	0.15	0.31			
E	0.030	0.060	0.76	1.52			
F	0.065	0.091	1.65	2.32			
G	0.200	0.220	5.08	5.59			
Н	0.160	0.191	4.06	4.85			
J	0.130	0.155	3.30	3.94			

Suggested Solder Pad Layout





Curve Characteristics

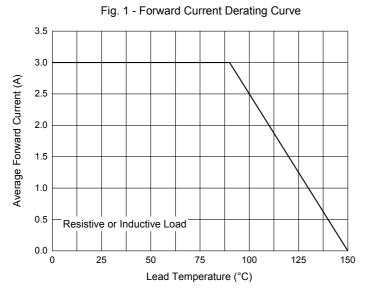
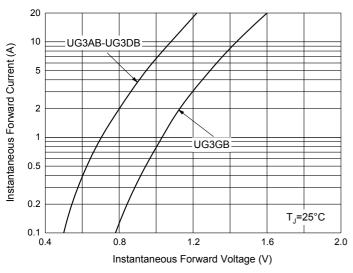
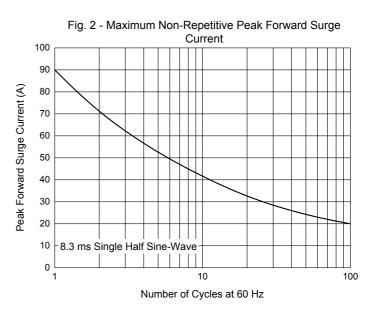
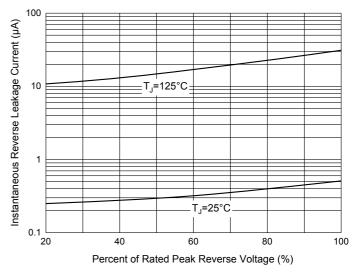


Fig. 3 - Typical Instantaneous Forward Characteristics











Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel: 3Kpcs/Reel	

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