

Features

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

1 Amp Super Fast Recovery Rectifier 600 Volts

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 13°C/W Junction to Lead

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	iviaximum	Maximum DC Blocking Voltage
MURS1JBL	UR1JL	600V	420V	600V

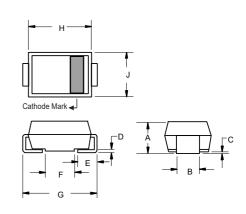
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	1.0A	See Fig 1
Maximum Surge Current	I _{FSM}	35A	8.3ms,Half Sine
Max Peak Forward Voltage	V _{FM}	1.25V	I _F =1.0A
Max Peak Reverse Current	I _{RM}	5.0μA 150μA	T _J =25°C; T _J =150°C
Typical Junction Capacitance	СЈ	15pF	V _R =4.0V , f=1MHz
Maximum Reverse Recovery Time	T _{RR}	50ns	I _F =0.5A; I _R =1.0A; Irr=0.25A

Note:

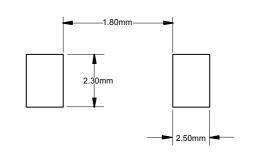
- 1. High Temperature Solder Exemptions Applied, See EU Directive Annex 7a.
- ${\it 2. Halogen free "Green"} products are defined as those which contain {\it <900ppm bromine},$
- <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

SMB (DO-214AA)



DIMENSIONS							
DIM	INCHES		MM		NOTE		
Dilvi	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

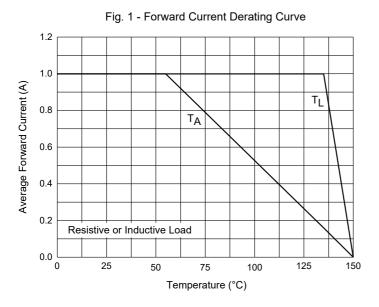


Fig. 3 - Typical Instantaneous Forward Characteristics

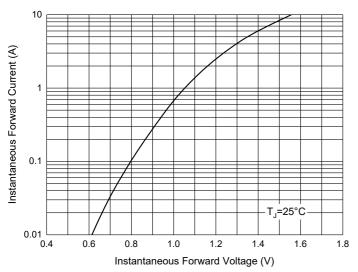


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge
Current

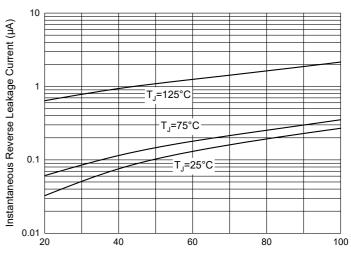
40

35

8.3 ms Single Half Sine-Wave
0

Number of Cycles at 60 Hz

Fig. 4 - Typical Reverse Leakage Characteristics



Percent of Rated Peak Reverse Voltage (%)



Ordering Information

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

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