

**Features**

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

**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	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURS1JBL	UR1JL	600V	420V	600V

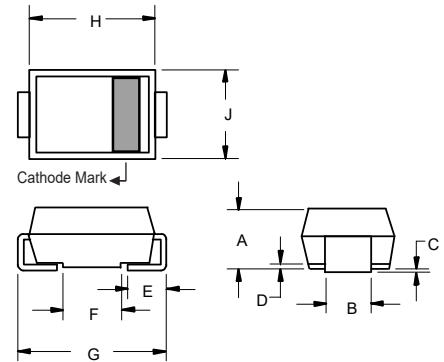
**Electrical Characteristics @ 25°C Unless Otherwise Specified**

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	$C_J$	15pF	$V_R=4.0A$ , $f=1MHz$
Maximum Reverse Recovery Time	$T_{RR}$	50ns	$I_F=0.5A$ ; $I_R=1.0A$ ; $I_{rr}=0.25A$

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

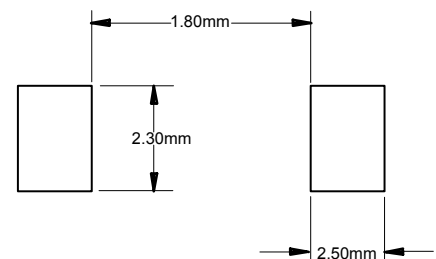
**1 Amp Super Fast Recovery Rectifier  
600 Volts**

**SMB (DO-214AA)**



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.079	0.103	2.00	2.62	
B	0.075	0.087	1.91	2.21	
C	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	
H	0.160	0.191	4.06	4.85	
J	0.130	0.155	3.30	3.94	

**Suggested Solder Pad Layout**



## Curve Characteristics

Fig. 1 - Forward Current Derating Curve

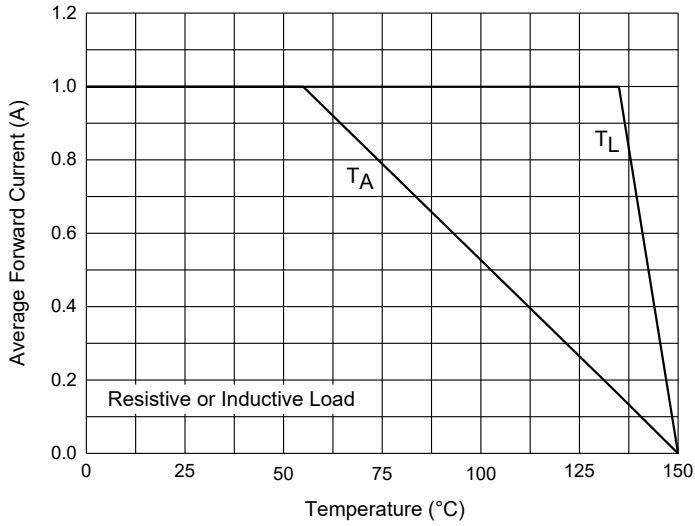


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

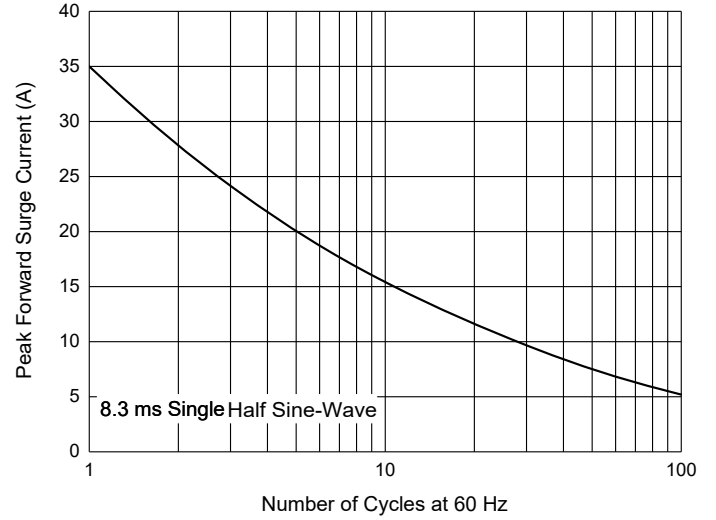


Fig. 3 - Typical Instantaneous Forward Characteristics

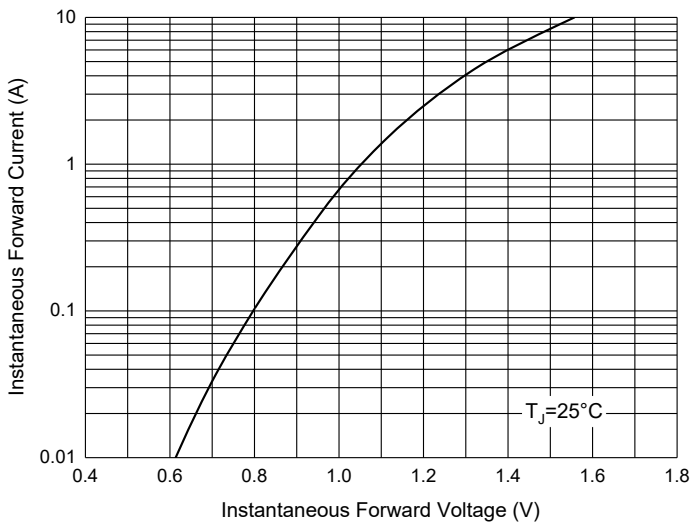
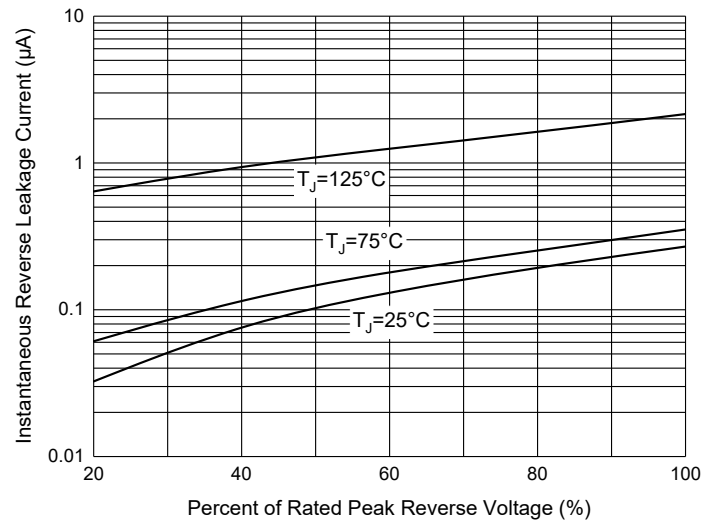


Fig. 4 - Typical Reverse Leakage Characteristics



## Ordering Information

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

Note : Adding "-HF" Suffix For Halogen Free, eg. MURS1JBL-TP-HF

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