

Features

- Halogen Free. "Green" Device (Note 1)
- · Glass Passivated Chip
- Super Fast Switching For High Efficiency
- Low Reverse Leakage Current
- Lead Free Finish/RoHS Compliant(Note 2) ("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Junction Temperature Range: -50°C to +150°C
- Storage Temperature Range: -50°C to +150°C
- Maximum Thermal Resistance; 20°C/W Junction to Lead

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
US2A	US2A	50V	35V	50V
US2B	US2B	100V	70V	100V
US2C	US2C	150V	105V	150V
US2D	US2D	200V	140V	200V
US2G	US2G	400V	280V	400V
US2J	US2J	600V	420V	600V
US2K	US2K	800V	560V	800V
US2M	US2M	1000V	700V	1000V

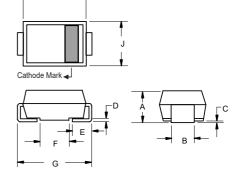
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	2.0A	T _L =110°C
Peak Forward Surge Current	I _{FSM}	50A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage			
US2A-US2D US2G US2J-US2M	V _F	1.0V 1.4V 1.65V	I _{FM} =2.0A; T _J =25ºC
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0μΑ 200μΑ(Max) 16μΑ(Typ)	T _J =25°C; T _J =125°C T _J =125°C
Maximum Reverse Recovery Time			
US2A-US2G US2J-US2M	T _{RR}	50ns 75ns	I _F =0.5A; I _R =1.0A; Irr=0.25A
Typical Junction Capacitance	С	28pF	Measured at 1.0MHz V _R =4.0V

Note:

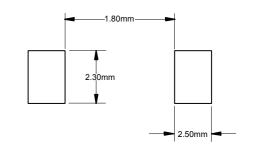
2 Amp Ultra Fast Rectifier 50 to 1000 Volts

SMB (DO-214AA)



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



^{1.}Halogen free "Green"products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

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



Curve Characteristics

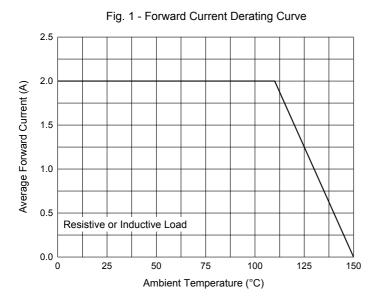


Fig. 3 - Typical Instantaneous Forward Characteristics

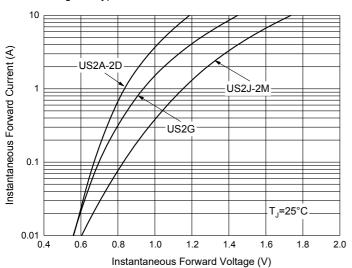


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge
Current

30

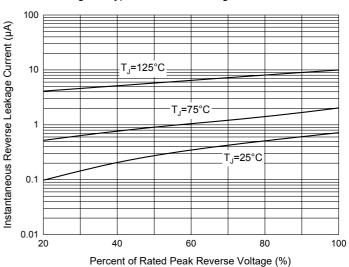
40

30

8.3 ms Single Half Sine-Wave

Number of Cycles at 60 Hz

Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

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

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