

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- · Glass Passivated Chip
- Super Fast Switching For High Efficiency
- Low Reverse Leakage Current
- 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

2 Amp Ultra Fast Rectifier 1200 Volts

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

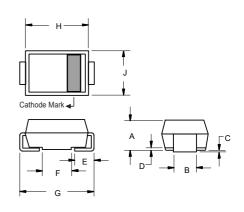
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
US2Q	US2Q	1200V	840V	1200V

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	V _F	1.7V 1.1V(Typ)	I _{FM} =2.0A;T _J =25°C I _{FM} =2.0A;T _J =125°C	
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0μA 350μA	T _J =25°C; T _J =125°C	
Maximum Reverse Recovery Time	T _{RR}	100ns	I _F =0.5A; I _R =1.0A; Irr=0.25A	
Typical Junction Capacitance	С	27pF	Measured at 1.0MHz V _R =4.0V	

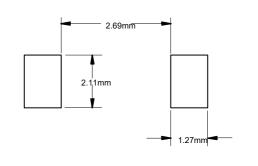
Note: 1. High Temperature Solder Exemptions Applied, See EU Directive Annex 7a.

SMB (DO-214AA)



DIMENSIONS								
DIM	INCHES		MM		NOTE			
DIIVI	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

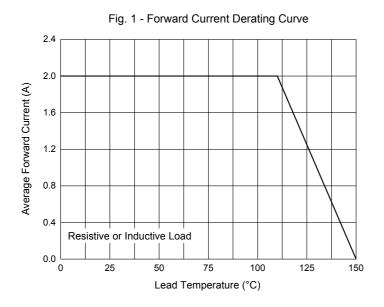
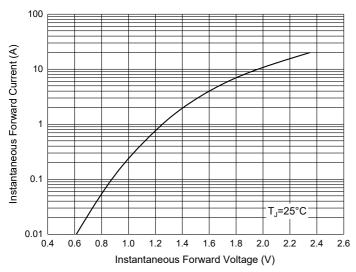


Fig. 3 - Typical Instantaneous Forward Characteristics



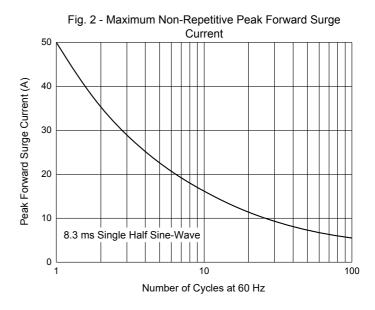
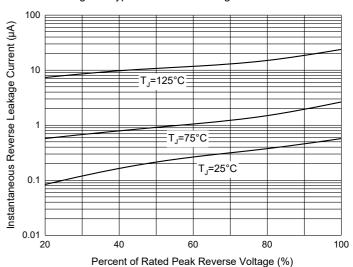


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

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

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

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