

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	Maximum DC Blocking Voltage
US2Q	US2Q	1200V	840V	1200V

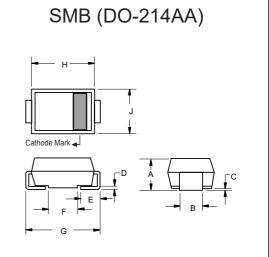
Electrical Characteristics @ 25°C Unless Otherwise Specified

-		•
I _{F(AV)}	2.0A	T _L =110⁰C
I _{FSM}	50A	8.3ms,Half Sine
V _F	1.7V 1.1V(Typ)	I _{FM} =2.0A;T _J =25°C I _{FM} =2.0A;T _J =125°C
I _R	5.0μA 350μA	TJ=25⁰C; TJ=125⁰C
T _{RR}	100ns	I _F =0.5A; I _R =1.0A; Irr=0.25A
CJ	27pF	Measured at 1.0MHz V _R =4.0V
	I _{FSM} V _F I _R T _{RR}	$ \begin{array}{c} I_{FSM} & 50A \\ V_{F} & 1.7V \\ 1.1V(Typ) \\ I_{R} & 5.0\mu A \\ 350\mu A \\ T_{RR} & 100ns \end{array} $

Note:

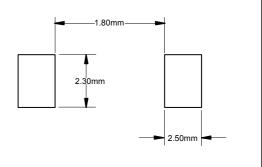
Halogen free "Green"products are defined as those which contain <900ppm bromine,
 <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
 High Temperature Solder Exemptions Applied, See EU Directive Annex 7a.

2 Amp Ultra Fast Rectifier 1200 Volts



	DIMENSIONS						
DIM	INCHES		MM		NOTE		
	MIN	MAX	MIN	MAX	NOTE		
А	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

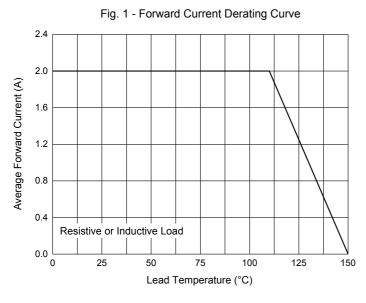
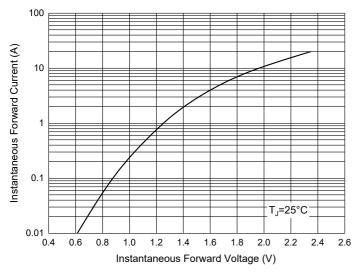
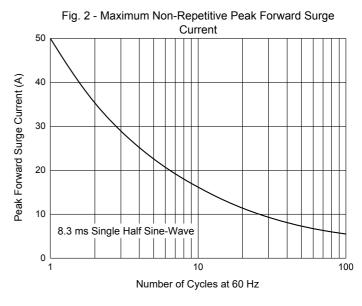
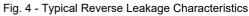
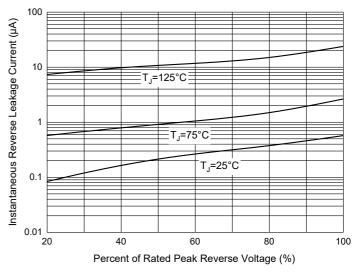


Fig. 3 - Typical Instantaneous Forward Characteristics











Ordering Information

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

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