

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- For Surface Mount Applications
- Extremely Low Thermal Resistance
- Super Fast Recovery Time For High Efficiency
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Halogen Free. "Green" Device (Note 2)

Maximum Ratings

- Operating Junction Temperature Range: -50°C to +150°C
- Storage Temperature Range: -50°C to +150°C
- Typical Thermal Resistance(Note 3): 20°C/W Junction to Lead
- Typical Thermal Resistance(Note 3): 75°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	iviaximum	Maximum DC Blocking Voltage
UF1Q	UF1Q	1200V	840V	1200V

Electrical Characteristics @ 25°C Unless Otherwise Specified

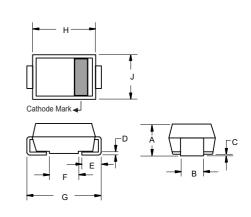
Average Forward Current	I _{F(AV)}	1.0A	T _L =115°C		
Peak Forward Surge Current	I _{FSM}	30A	8.3ms,Half Sine		
Maximum Instantaneous Forward Voltage	V _F	1.90V	I _{FM} =1.0A; T _J =25°C*		
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0μA 30μA	T _J =25°C; T _J =125°C		
Maximum Reverse Recovery Time	t _{rr}	75ns	I _F =0.5A; I _R =1.0A; Irr=0.25A		
Typical Junction Capacitance	CJ	45pF	Measured at 1.0MHz; V _R =4.0V		

^{*}Pulse Test: Pulse Width 200 µsec, Duty Cycle 2%

- 1. High Temperature Solder Exemption Applied, See EU Directive Annex Notes 7a.
- 2. Halogen free "Green"products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 3.Mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas.

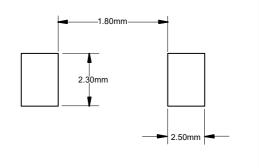
1 Amp Ultra Fast Rectifier 1200 Volts

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

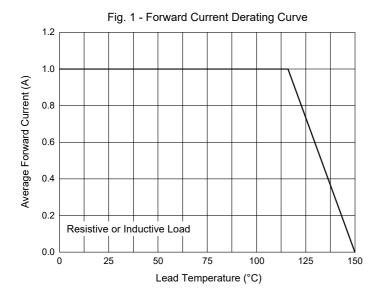
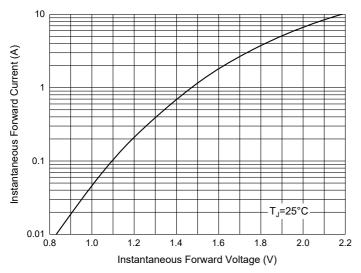


Fig. 3 - Typical Instantaneous Forward Characteristics



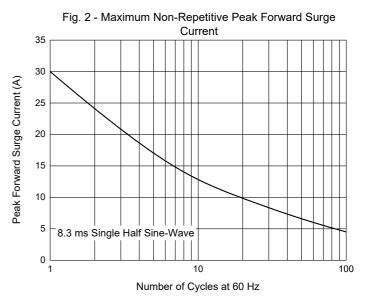
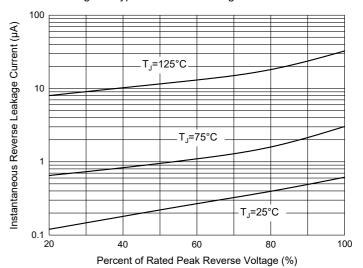


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing	
UF1Q-TP	Tape&Reel: 3Kpcs/Reel	

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