

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- For Surface Mount Applications
- Glass Passivated Junction
- Extremely Low Thermal Resistance
- Super Fast Recovery Time For High Efficiency
- 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: 15°C/W Junction to Lead

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
ER1Q-L	ER1Q	1200V	840V	1200V

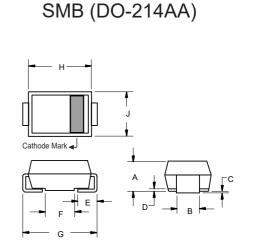
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	1.0A	T _A =55⁰C
Peak Forward Surge Current	I _{FSM}	30A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V _F	1.85V	I _{FM} =1.0A; T _J =25⁰C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0μA 30μA	T _J =25⁰C; T _J =125⁰C
Maximum Reverse Recovery Time	T _{RR}	150ns	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%

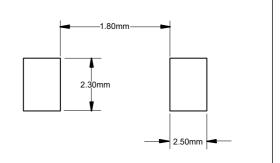
1. High Temperature Solder Exemption Applied, See EU Directive Annex Notes 7a.

1 Amp Super Fast Recovery Silicon Rectifier 1200 Volts



	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





Curve Characteristics

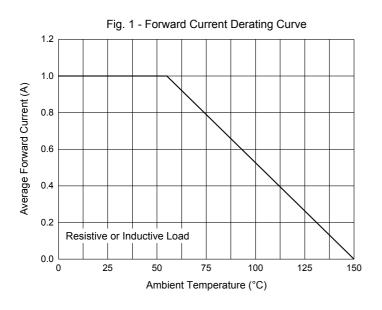
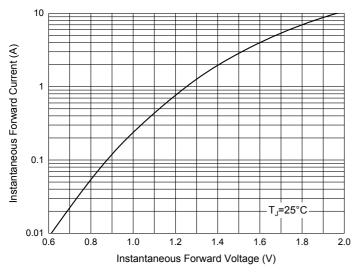
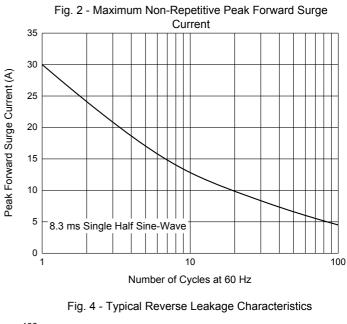
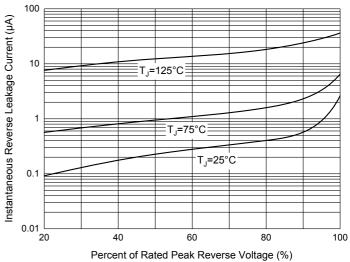


Fig. 3 - Typical Instantaneous Forward Characteristics









Ordering Information

Device	Packing	
ER1Q-LTP	Tape&Reel: 3Kpcs/Reel	

Note : Adding "-HF" Suffix For Halogen Free, eg. ER1Q-LTP-HF

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