NOT RECOMMENDED FOR NEW DESIGNS USE ER1Q-LTP





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ER1QG

Features

- Epoxy meets UL 94 V-0 flammability rating
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- · For surface mount applications
- Extremely low thermal resistance
- High temp soldering: 260°C for 10 seconds at terminals
- Super fast recovery time for high efficiency
- Moisture sensitivity level 1
- Perfect for Ballast, television and monitor applications

Maximum Patings

- Operating Temperature: -50°C to +150°C
- Storage Temperature: -50°C to +150°C
- Maximum Thermal Resistance; 15°C/W Junction To Lead

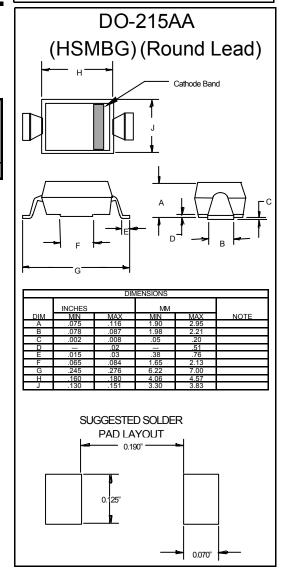
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse	Maximum RMS Voltage	Maximum DC Blocking
		Voltage		Voltage
ER1QG	ER1Q	1200V	840V	1200V

Hectrical Characteristics @25°CUnless Otherwise Specified

Average Forward	I _{F(AV)}	1.0A	$T_a = 55^{\circ}C$
Current	1	20.4	O Owen helf sin :
Peak Forward Surge	I _{FSM}	30A	8.3ms, half sine
Current			
Maximum			
Instantaneous			
Forward Voltage			
	V_{F}	1.85V	$I_{FM} = 1.0A;$
	'		T _J = 25°C*
Maximum DC			
Reverse Current At	I _R	5μΑ	T ₁ = 25°C
Rated DC Blocking		30μΑ	T _J = 125°C
Voltage			
Maximum Reverse			
Recovery Time			
	Trr	150ns	I _F =0.5A, I _R =1.0A,
			I _{rr} =0.25A
Typical Junction	C _J	45pF	Measured at
Capacitance		,	1.0MHz, V _R =4.0V

^{*}Pulse test: Pulse width 200 μsec , Duty cycle 2%

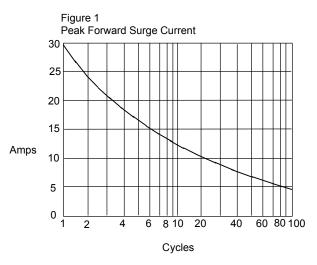
1 Amp Super Fast Recovery Silicon Rectifier 1200 Volts



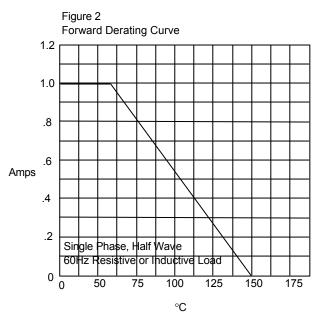


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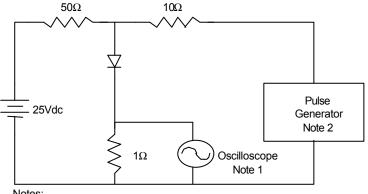


Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles



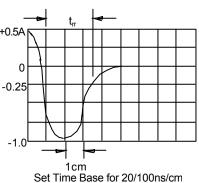
Average Forward Rectified Current - Amperes versus Ambient Temperature - °C

Figure 3 Reverse Recovery Time Characteristic And Test Circuit Diagram



Notes:

- 1. Rise Time = 7ns max.
- Input impedance = 1 megohm, 22pF
- 2. Rise Time = 10ns max.
- Source impedance = 50 ohms
- 3. Resistors are non-inductive





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Ordering Information:

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

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