

## Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Halogen Free. "Green" Device (Note 2)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Glass passivated chip junction
- Moisture Sensitivity Level 1
- AEC-Q101 qualified

# **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 15°C/W Junction to Case(Note3)
- Typical Thermal Resistance: 20°C/W Junction to Lead(Note3)
- Typical Thermal Resistance: 70°C/W Junction to Ambient(Note3)

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURS2DQ	MURS2D	200V	140V	200V

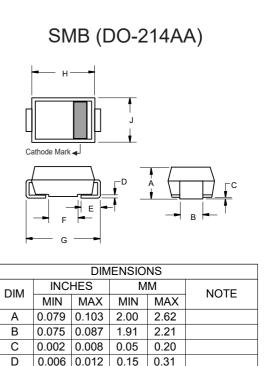
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Rectified Forward Current	I <sub>F(AV)</sub>	2A	T <sub>L</sub> =100°C		
Peak Forward Surge Current	I <sub>FSM</sub>	50A	8.3ms,Half Sine		
Instantaneous Forward Voltage	V <sub>F</sub>	0.92V(Max.)	I <sub>F</sub> =2A; T <sub>J</sub> =25⁰C		
Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	2uA(Max.) 50uA(Max.)	T <sub>J</sub> =25°C; T <sub>J</sub> =125°C		
Typical Junction Capacitance	CJ	25pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V		
	t <sub>rr</sub>	25ns(Max.)	I <sub>F</sub> =0.5A; I <sub>R</sub> =1.0A; I <sub>RR</sub> =0.25A		
Reverse Recovery		26ns(Typ.)	I <sub>F</sub> =1A; di/dt=-50A/us; V <sub>R</sub> =30V		
Time		25ns(Typ.) 30ns(Typ.)	TJ=25⁰C TJ=125⁰C		
Peak recovery current	I <sub>RRM</sub>	3.5A(Typ.) 6.0A(Typ.)	T <sub>J</sub> =25⁰C T <sub>J</sub> =125⁰C	I <sub>F</sub> =2A di/dt=-200A/µs - V <sub>R</sub> =100 V	
Reverse recovery charge	Q <sub>rr</sub>	47nC(Typ.) 85nC(Typ.)	T <sub>J</sub> =25⁰C T <sub>J</sub> =125⁰C		

Note:

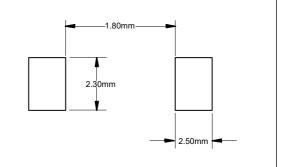
High Temperature Solder Exemptions Applied, See EU Directive Annex Notes 7a.
Halogen free "Green"products are defined as those which contain <900ppm bromine,</li>
<900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.</p>
Mounted on P.C.B. With 0.3" x 0.3" (8.0 mm x8.0 mm) Copper Pad Areas.

# 2 Amp Surface Mount Super Fast Recovery Rectifier 200 Volts



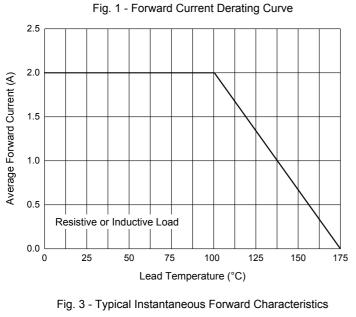
C	0.002	800.0	0.05	0.20	
D	0.006	0.012	0.15	0.31	
E	0.030	0.060	0.76	1.52	
F	0.065	0.091	1.65	2.32	
G	0.200	0.220	5.08	5.59	
Н	0.160	0.191	4.06	4.85	
J	0.130	0.155	3.30	3.94	

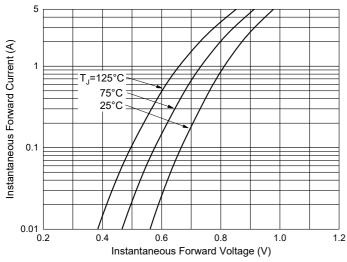
#### Suggested Solder Pad Layout

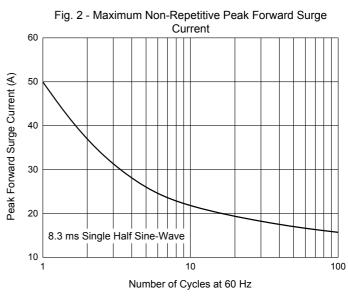


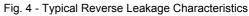


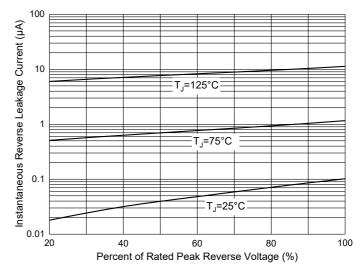
# **Curve Characteristics**













# **Ordering Information**

Device	Packing	
MURS2DQ-TP	Tape&Reel: 3Kpcs/Reel	

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