

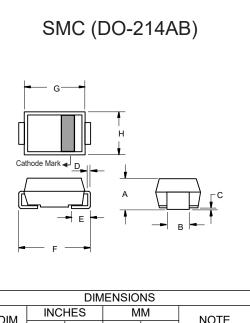
Features

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

3 Amp Super Fast Recovery Rectifier 400 Volts

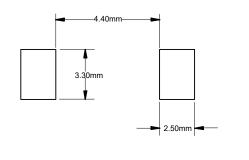
Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V _{RRM}		
Working Peak Reverse Voltage	V _{RWM}	400	V
DC Blocking Voltage	V _R		
RMS Reverse Voltage	V _{RMS}	280	V
Average Rectified Forward Current @ T _L =110°C	I _{F(AV)}	3	А
Non-Repetitive Peak Surge Current @8.3ms Half Sine Wave	1	100	A
Non-Repetitive Peak Surge Current @1ms Square Wave	I _{FSM}	180	A
Current Squared Time @ 1ms≤t≤8.3ms	l ² t	41.5	A ² s



DIMENSIONS						
DIM INCHES		MM		NOTE		
	MIN	MAX	MIN	MAX	NOTE	
Α	0.079	0.103	2.00	2.62		
В	0.108	0.128	2.75	3.25		
С	0.002	0.008	0.051	0.203		
D	0.006	0.012	0.152	0.305		
E	0.030	0.060	0.76	1.52		
F	0.305	0.320	7.75	8.13		
G	0.260	0.280	6.60	7.11		
Н	0.220	0.245	5.59	6.22		

Suggested Solder Pad Layout



Marking Diagram Internal Structure 1 MCC MURS3G 2 Marking Code: MURS3G

Note:

1. High temperature solder exemption applied, see EU directive annex 7a.

2. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TJ	Operating Junction Temperature Range		-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-L)	Thermal Resistance from Junction to Lead	Note 1		15		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		60		°C/W

Note:

1.Mounted on P.C.B. with 16mm*16mm copper pad areas.

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Мах	Unit
Forward Voltage	V _F	I _F =3A;T _J =25°C			1.00	V
Reverse Current	I _R	at Rated V _R ;T _J =25°C at Rated V _R ;T _J =125°C			5 50	μA
Junction Capacitance	CJ	V _R =4V;f=1MHz;T _J =25°C		55		pF

Dynamic Recovery Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions		Min	Тур	Max	Unit
		I _F =0.5A; I _R =1.0A;I _{RR} =0.25A;T _J =25°C				35	
		I _F =1A,di/dt=-50A/us,V _R	I _F =1A,di/dt=-50A/us,V _R =30V;T _J =25°C		40		
Reverse Recovery Time	t _{rr}		TJ=25°C		32		ns
			T _J =125°C		52		
		l _F =3A di/dt=-200A/µs	TJ=25°C		4.8		٨
Peak Recovery Current	I _{RRM}	V _R =200 V	T _J =125°C		7.5		A
Reverse Recovery Charge	Q _{rr}	-	TJ=25°C		76		- nC
			T _J =125°C		196		



Curve Characteristics

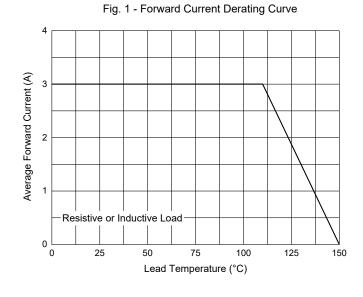


Fig. 3 - Typical Instantaneous Forward Characteristics

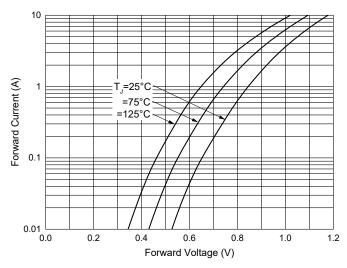
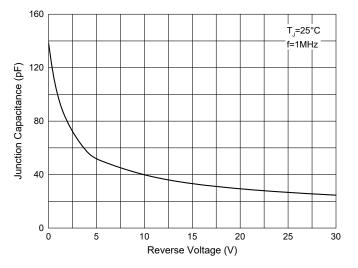


Fig. 5 - Typical Capacitance Characteristics



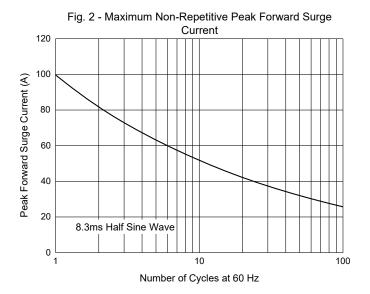
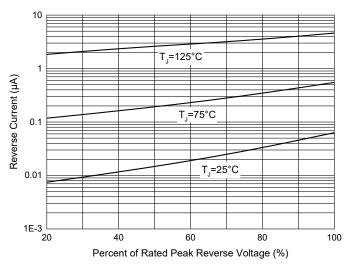


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing
MURS3G-TP	Tape&Reel:3Kpcs/Reel

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