

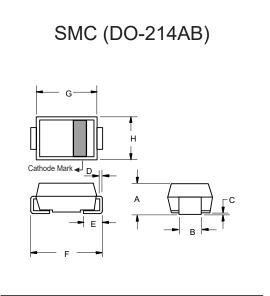
Features

- 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
- Epoxy meets OL 94 V-0 Flammability Rating
 Halogen Free. "Green" Device (Note 2)
- Maiogen Free. Green Device (Note
 Moisture Sensitivity Lovel 1
- Moisture Sensitivity Level 1

4 Amp Super Fast Recovery Rectifier 600 Volts

Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Value	Unit	
Peak Repetitive Reverse Voltage	V _{RRM}			
Working Peak Reverse Voltage	V _{RWM}	600	V	
DC Blocking Voltage	V _R			
RMS Reverse Voltage	V _{RMS}	420	V	
Average Rectified Forward Current @ T _L =100°C	I _{F(AV)}	4	А	
Non-Repetitive Peak Surge Current @8.3ms Half Sine Wave		125	٨	
Non-Repetitive Peak Surge Current @1ms Square Wave	· I _{FSM}	200	- A	
Current Squared Time @ 1ms≤t≤8.3ms	l ² t	64.8	A²s	



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		

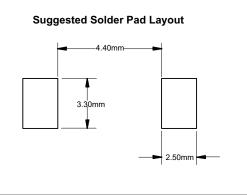
Internal Structure

Pin	Description	Simplified Outline	Graphic Symbol
1	Cathode		
2	Anode	1 MCC MURS4J 2	1 o o 2

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		14		°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	Max	Unit
Forward Voltage	V _F	I _F =4A;T _J =25°C			1.25	V
Reverse Current	I _R	at Rated V _R ;T _J =25°C at Rated V _R ;T _J =125°C			5 50	μΑ
Junction Capacitance	CJ	V _R =4V;f=1MHz;T _J =25°C		50		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				50	
		I_F =1A,di/dt=-50A/us, V_R =30V; T_J =25°C			49		
Reverse Recovery Time	t _{rr}		TJ=25°C		50		ns
		I _F =4A di/dt=-200A/μs V _R =400 V	TJ=125°C		77		
De als De accorre Ocurrent			TJ=25°C		6.6		A
Peak Recovery Current	I _{RRM}		TJ=125°C		10		A
Reverse Recovery Charge Q _{rr}	0		TJ=25°C		168		nC
		T _J =125°C			382		



Curve Characteristics

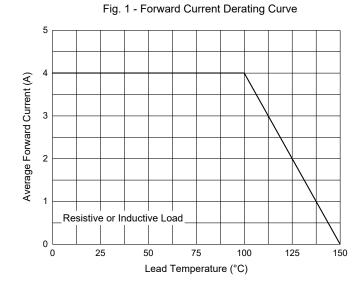


Fig. 3 - Typical Instantaneous Forward Characteristics

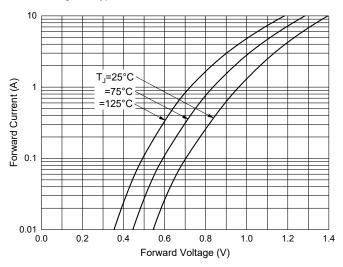
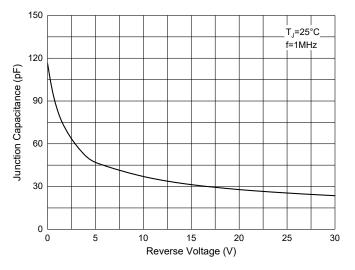


Fig. 5 - Typical Capacitance Characteristics



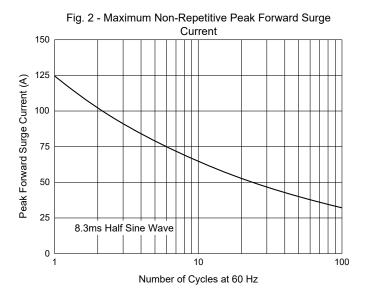
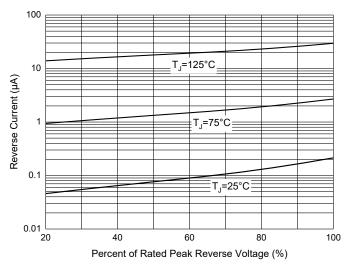


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing
MURS4J-TP	Tape&Reel:3Kpcs/Reel

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