

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

2 Amp Super Fast Recovery Rectifier 600 Volts

Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Value	Unit	
Peak Repetitive Reverse Voltage	V _{RRM}		V	
Working Peak Reverse Voltage	V _{RWM}	600		
DC Blocking Voltage	V _R			
RMS Reverse Voltage	V _{RMS}	420	V	
Average Rectified Forward Current @ T _L =100°C	I _{F(AV)}	2	Α	
Non-Repetitive Peak Surge Current @8.3ms Half Sine Wave		50	А	
Non-Repetitive Peak Surge Current @1ms Square Wave	- I _{FSM}	100	A	
Current Squared Time @ 1ms≤t≤8.3ms	l ² t	10.375	A ² s	

SMB (DO-214AA) Cathode Mark

DIMENSIONS						
DIM	DIM INCHES MIN MAX		M	M	NOTE	
Dilvi			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		
Е	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		

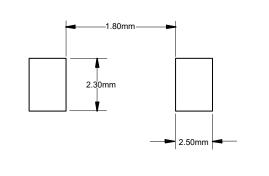
Internal Structure

Pin	Description	Simplified outline	Graphic symbol
1	Cathode	, MCC	
2	Anode	1 MCC MURS2J 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.

Suggested Solder Pad Layout





Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _J	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		20		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		75		°C/W

Note:

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =2A;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	uA
Junction Capacitance	CJ	V _R =4V;f=1MHz;T _J =25°C		25		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			50		
Reverse Recovery Time	t _{rr}		T _J =25°C		43		ns
			T _J =125°C		66		
Darle Darassan Ossesant		l _F =2A di/dt=-200A/µs	T _J =25°C		5.0		Α
Peak Recovery Current	I _{RRM}	V _R =400 V	T _J =125°C		7.4		A
Davidson Davidson Ohama	0		T _J =25°C		105		nC
Reverse Recovery Charge	Q _{rr}		T _J =125°C		243		IIC

^{1.}Mounted on P.C.B. with 8mm*8mm copper pad areas.



Curve Characteristics

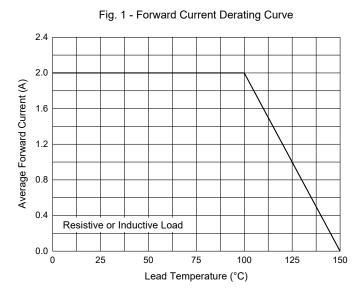


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge

Current

40

90

10

8.3ms Half Sine Wave

Number of Cycles at 60 Hz

Fig. 3 - Typical Instantaneous Forward Characteristics

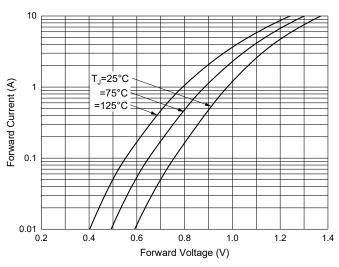


Fig. 4 - Typical Reverse Leakage Characteristics

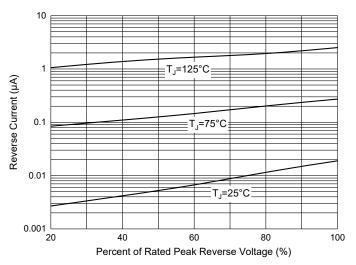
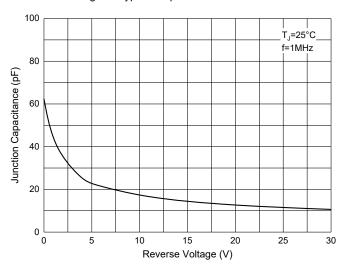


Fig. 5 - Typical Capacitance Characteristics





Ordering Information

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

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