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MURSXXB-MS

Product specification



SURFACE MOUNT ULTRAFAST RECTIFIER**VOLTAGE:400V TO 600V****CURRENT: 3.0A****Features**

- Ideally suited for use in very high frequency switching power
- supplies, inverters and as free wheeling diodes
- Ultrafast recovery time for high efficiency
- High surge capability
- High temperature soldering guaranteed
- 260°C/10sec/at terminals
- Glass passivated chip

Mechanical Data

- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Case: Molded with UL-94 class V-0 recognized Flame Retardant Epoxy
- Polarity: Color band denotes cathode end

Reference News

PACKAGE OUTLINE	Marking
	
SMB(DO-214AA)	*** Representative VRRM

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated,for capacitive load, derate current by 20%)

	SYMBOL	MURS340B-MS	MURS360B-MS	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	400	600	V
Maximum RMS Voltage	Vrms	280	420	V
Maximum DC blocking Voltage	Vdc	400	600	V
Maximum Average Forward Rectified Current 3/8"lead length at T _L =90°C	If(av)	3.0		A
Peak Forward Surge Current 8.3ms single half sine- wave superimposed on rated load	Ifsm	125.0		A
Maximum Instantaneous Forward Voltage at rated forward current T _J =25°C	Vf	1.25		V
Maximum DC Reverse Current at rated DC blocking voltage	Ir	10.0 50.0		μA
Maximum Reverse Recovery Time (Note1)	Trr	50		nS
Typical Junction Capacitance (Note 2)	Cj	50		pF
Typical Thermal Resistance, junction to lead	Rth(jl)	11		°C/W
Storage and Operating Junction Temperature	Tstg, Tj	-55 to +175		°C

Note:

1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc

RATINGS AND CHARACTERISTIC CURVES MURSXXB-MS

Fig. 1 – Forward Current Derating Curve

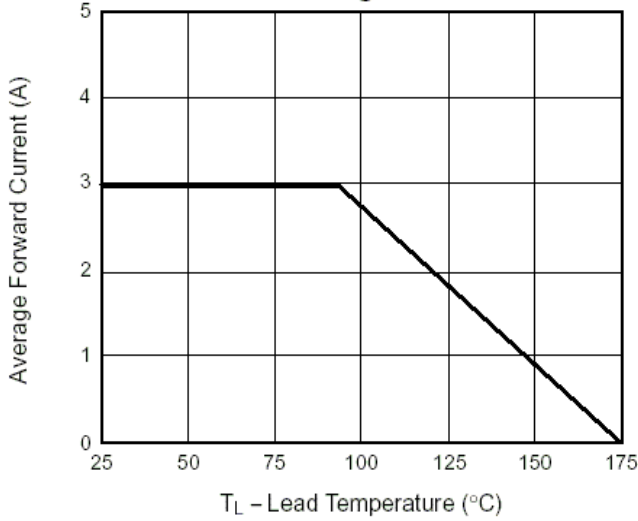


Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current

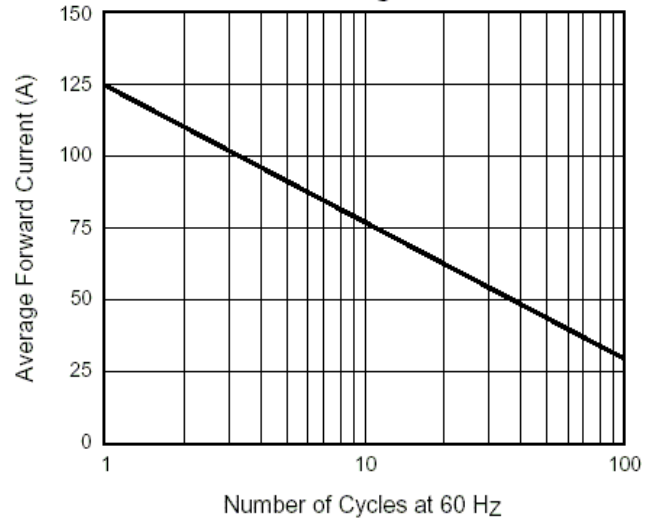


Fig. 3 – Typical Instantaneous Forward Characteristics

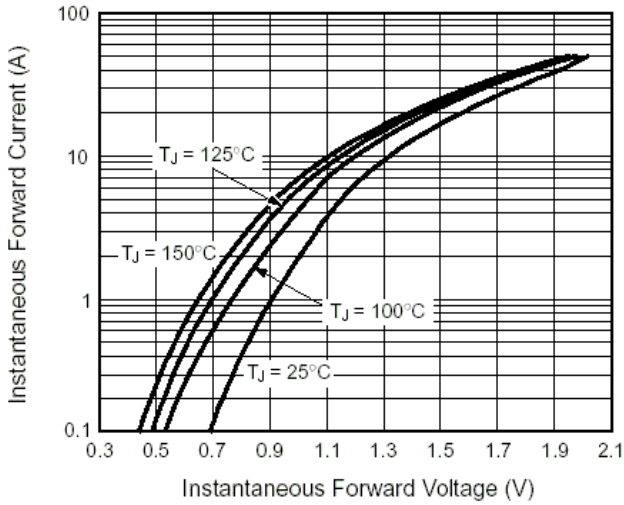


Fig. 4 – Typical Reverse Characteristics

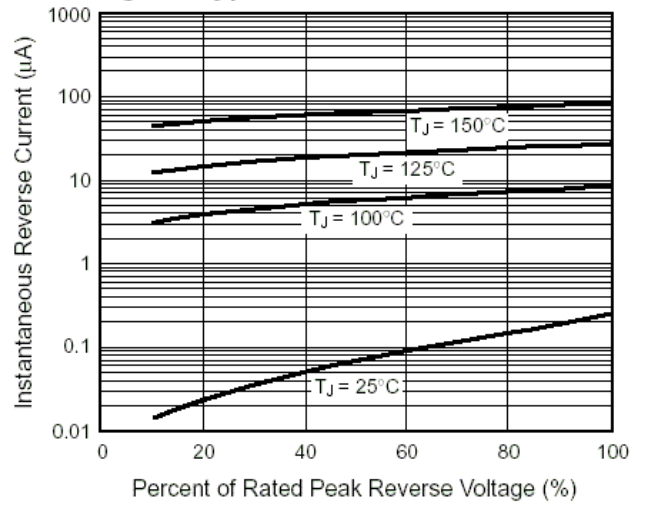
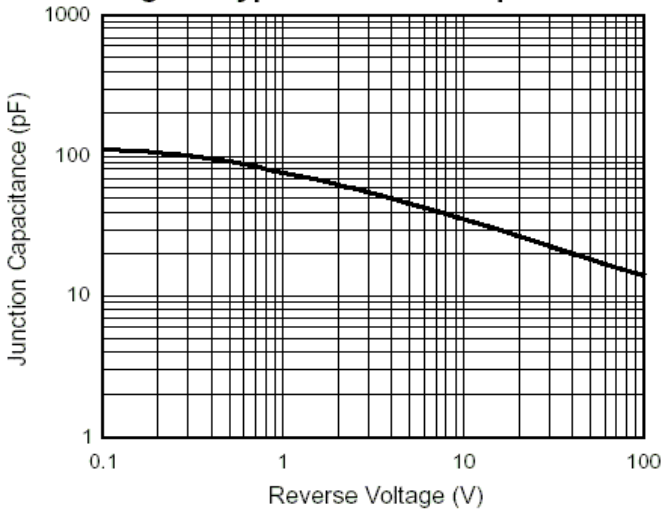
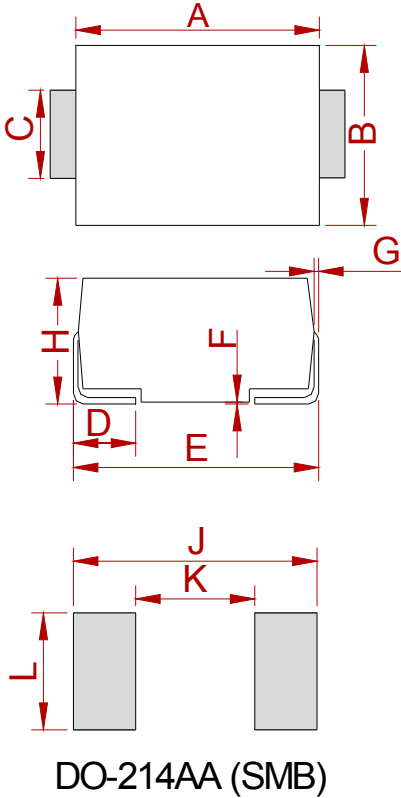


Fig. 5 – Typical Junction Capacitance



PACKAGE MECHANICAL DATA



Ref.	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	4.25	4.75	0.167	0.187
B	3.30	3.94	0.130	0.155
C	1.85	2.21	0.073	0.087
D	0.76	1.52	0.030	0.060
E	5.08	5.59	0.200	0.220
F	0.051	0.203	0.002	0.008
G	0.15	0.31	0.006	0.012
H	2.11	2.44	0.083	0.096
J	6.80		0.270	
K		2.60		0.100
L	2.40		0.090	

REEL SPECIFICATION

P/N	PKG	QTY
MURSXXB-MS	DO-214AA(SMB)	3000

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