

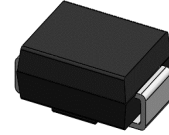
3A,400 - 600V Ultrafast Rectifiers

Features

- Low leakage current
- Low forward voltage drop
- Glass passivated chip junction
- Moisture sensitivity: level 1, per J-STD-020
- Halogen-free according to IEC 61249-2-21 definition
- High temperature soldering guaranteed: 260°C/10 seconds



RoHS
COMPLIANT



SMB (DO-214AA)

Applications

For use of general purpose rectification in lighting, cellular phone, portable device, power supplies and other consumer applications.

Maximum Ratings & Electrical Characteristics (T _A =25°C unless otherwise noted)				
Parameter	Symbol	MURS340B	MURS360B	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	400	600	V
Maximum RMS voltage	V _{RMS}	280	420	V
Maximum DC blocking voltage	V _{DC}	400	600	V
Maximum average forward rectified current	I _{F(AV)}	3		A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load per diode	I _{FSM}	150		A
Operating junction temperature range	T _J	-55 to +150		°C
Storage temperature range	T _{STG}	-55 to +150		°C

Thermal-Mechanical Specifications (T _A =25°C unless otherwise noted)			
Parameter	Symbol	Typ	Unit
Thermal Resistance, Junction to Ambient	R _{θJA}	85	°C/W
Thermal Resistance, Junction to Case	R _{θJC}	15	°C/W
Thermal Resistance, Junction to Lead	R _{θJL}	20	°C/W



MURS340B thru MURS360B

GOOD-ARK Electronics

Electrical Specifications ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Test Conditions	MURS340B	MURS360B	Unit
Maximum forward drop voltage	V_F	$I_F=3\text{A}$	1.3		V
Maximum reverse leakage current @ V_R	I_R	$T_J=25^{\circ}\text{C}$	5		μA
		$T_J=125^{\circ}\text{C}$	100		
Typical junction capacitance	C_J	4.0V 1 MHz	40		pF
Maximum reverse recovery time	t_{rr}	$I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{RR}=0.25\text{A}$	50		nS

Note:

1. Mounted on copper pad area of 0.2x0.2" (5.0 x 5.0mm) to each terminal.

Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

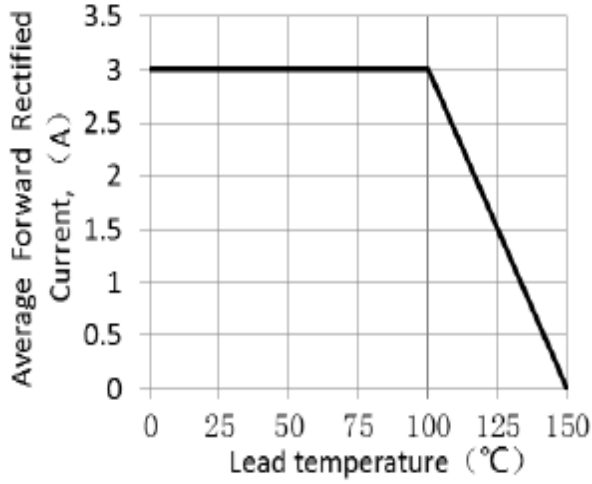


Figure 1. Forward Current Derating Curve

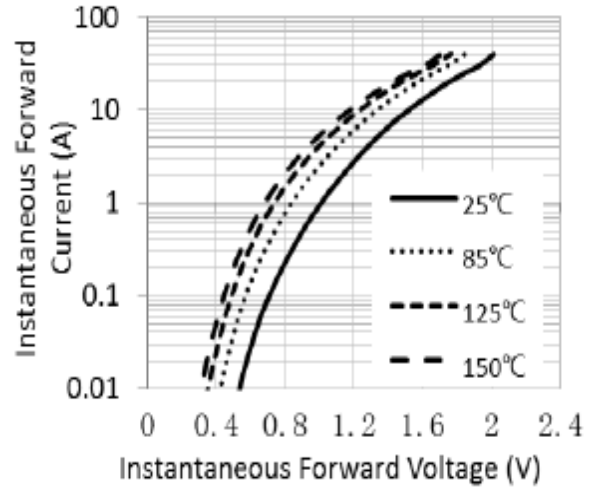


Figure 2. Typical Instantaneous Forward Characteristics

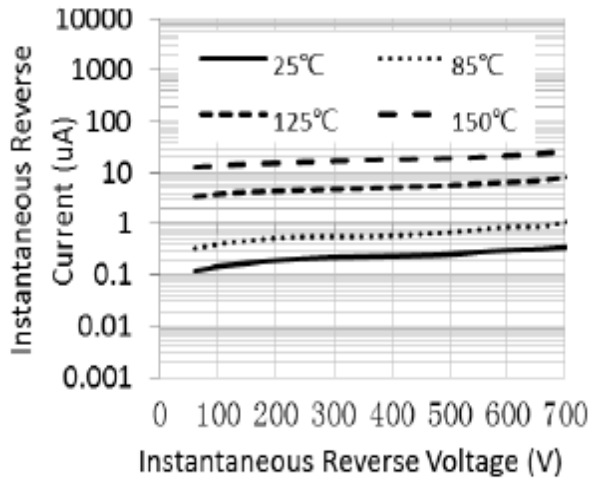


Figure 3. Typical Instantaneous Reverse Characteristics

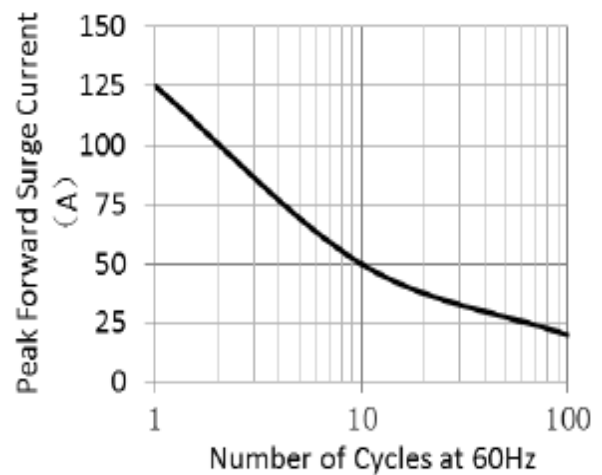
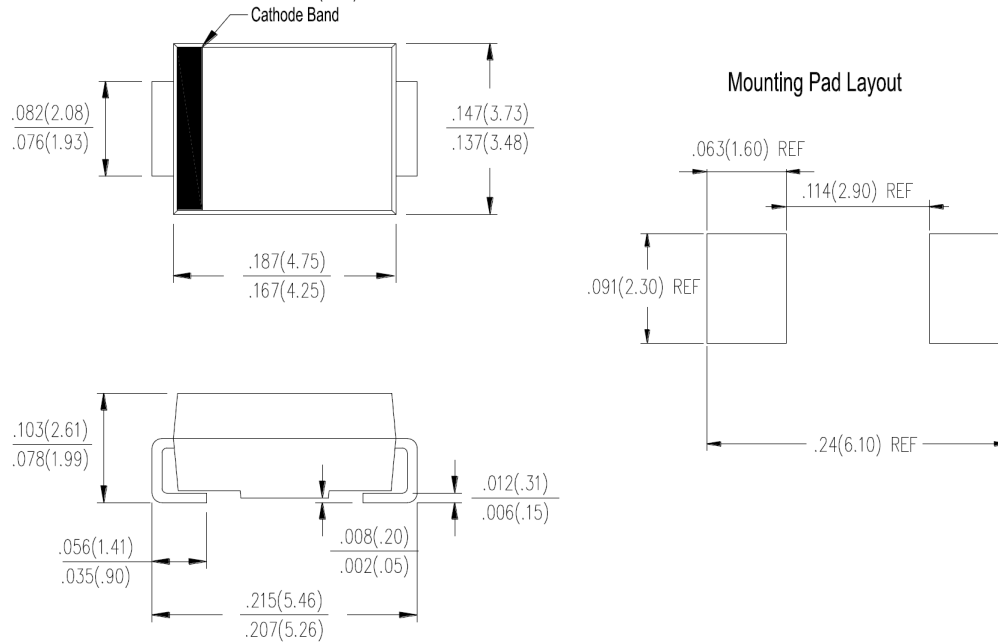


Figure 4. Maximum Non-Repetitive Peak Forward Surge Current

Package Outline Dimensions

in inches (millimeters)

SMB (DO-214AA)



Revision History

Document Version	Date of release	Description of changes
Rev.A	2021.06.01	Released Datasheet
Rev.B	2023.10.16	Modify document format

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