



Features

- Average Forward Current: $I_{F(AV)}=2A$
- Polarity: Color band denotes cathode



**SMB
(DO-214AA)**



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
MB26_R1_00001	SMB (DO-214AA)	SS26	3000

Maximum Ratings ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Item	Symbol	Unit	Test Conditions	Limit
Repetitive Peak Reverse Voltage	V_{RRM}	V		60
Maximum RMS Voltage	V_{RMS}	V		42
Average Forward Current	$I_{F(AV)}$	A	60Hz Half-sine wave, Resistance load, TL(Fig.1)	2.0
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave, 1 cycle, $T_a=25^{\circ}\text{C}$	50
Junction Temperature	T_J	$^{\circ}\text{C}$		-55 ~ +150
Storage Temperature	T_{STG}	$^{\circ}\text{C}$		-55 ~ +150

Electrical Characteristics ($T_a=25^{\circ}\text{C}$ unless otherwise specified)

Item	Symbol	Unit	Test Condition		Limit
Peak Forward Voltage	V _F	V	I _F =2.0A		0.70
Peak Reverse Current	I _{RRM1}	mA	V _{RM} =V _{RRM}	T _a =25°C	0.5
	I _{RRM2}			T _a =100°C	5.0
Thermal Resistance(Typical)	R _{θJ-A}	°C/ W	Between junction and ambient		75
	R _{θJ-L}		Between junction and terminal		17

Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas



Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

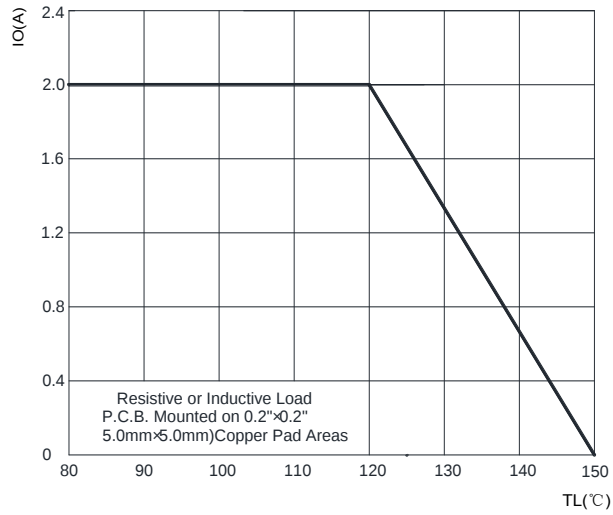


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

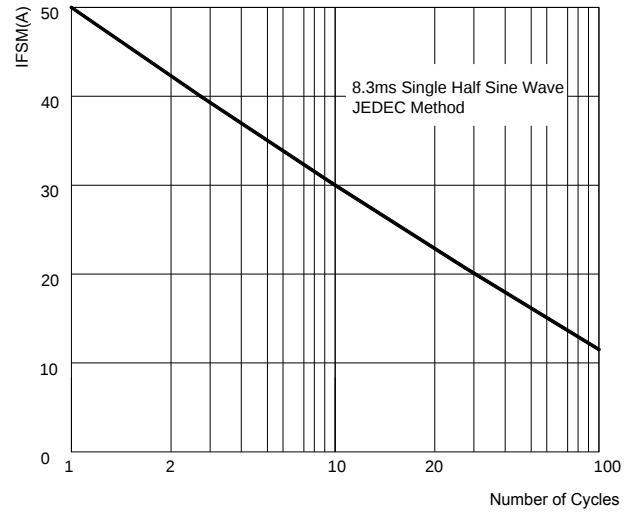


FIG.3: TYPICAL FORWARD CHARACTERISTICS

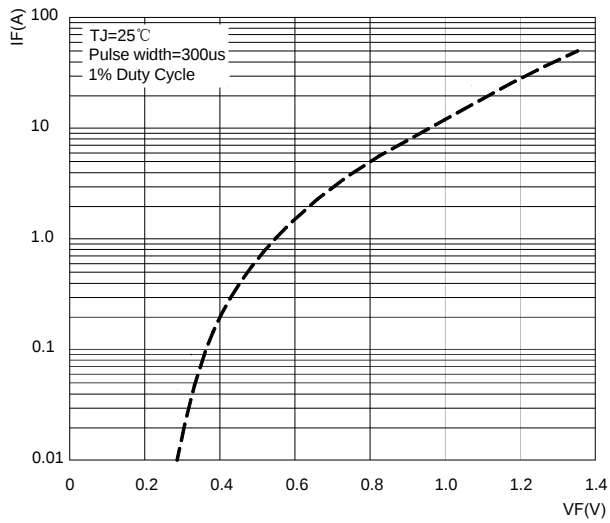
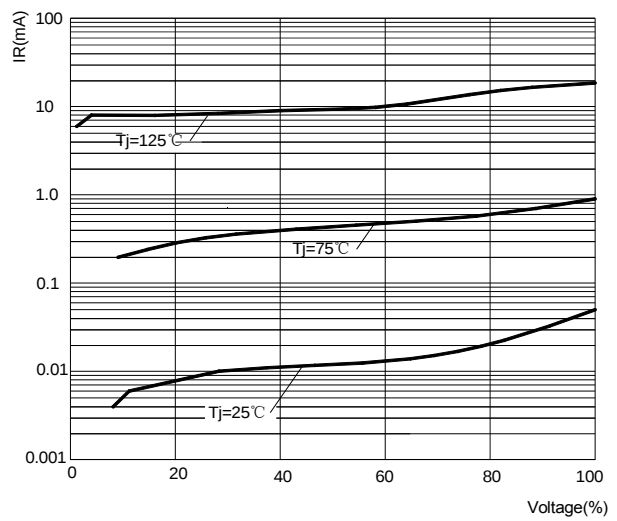
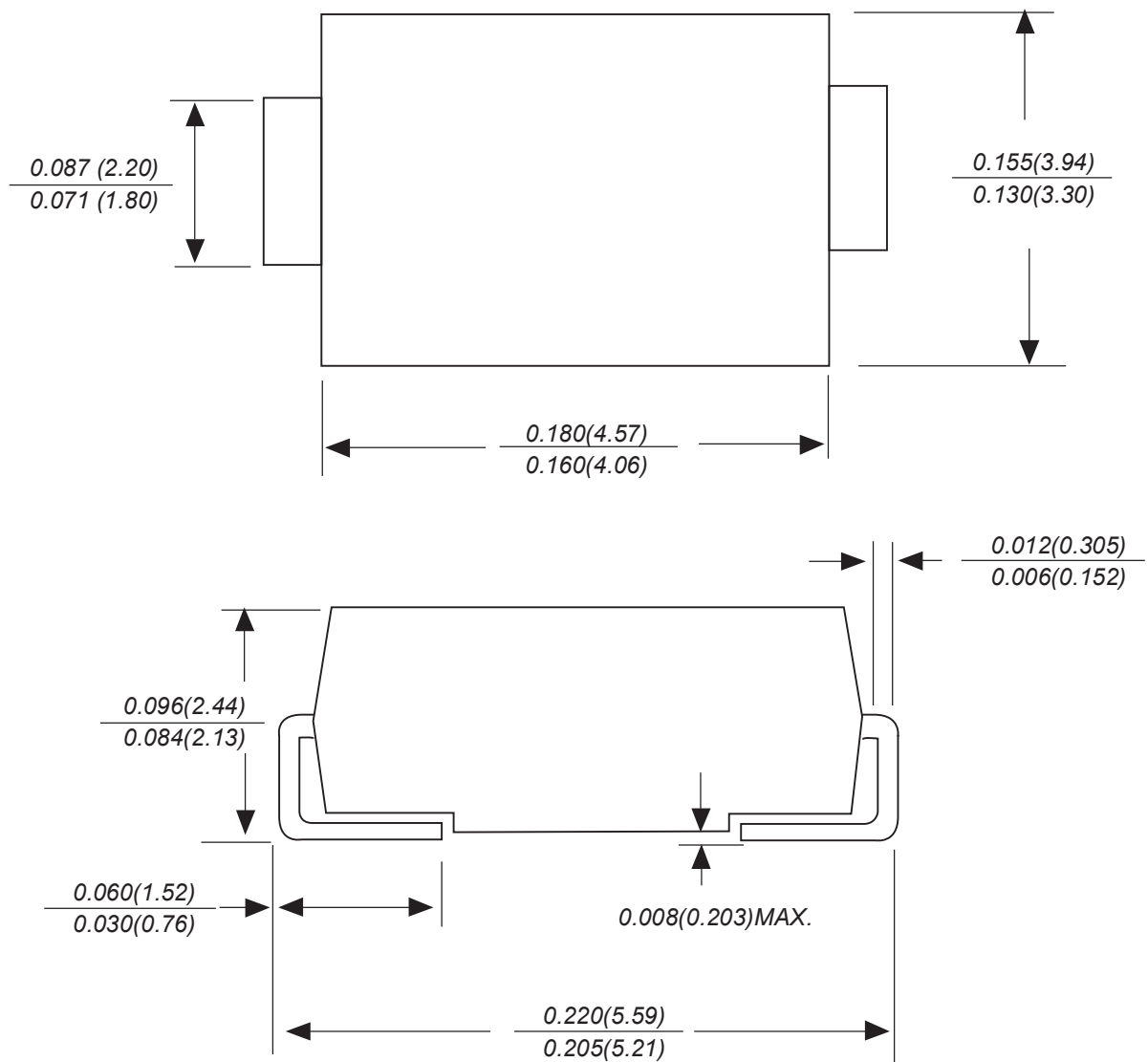


FIG.4: TYPICAL REVERSE CHARACTERISTICS





Package Outline Dimensions
SMB(DO-214AA)



Dimensions in inches and (millimeters)



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