

Features

 $I_{F(AV)}$ 5A

 V_{RRM} 60V

High surge current capability

Polarity: Color band denotes cathode

Low peak forward voltage

Applications

Rectifier

SMB

Marking:SS56L

Limiting Values(Absolute Maximum Rating)

Item	Symbol	Unit	Test Conditions	SS56L
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	5.0
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave , 1 cycle, $T_a=25^{\circ}C$	120
Junction Temperature	T_J	$^{\circ}C$		-55 ~ +150
Storage Temperature	T_{STG}	$^{\circ}C$		-55 ~ +150

Electrical Characteristics (T=25°C Unless otherwise specified)

Item	Symbol	Unit	Test Condition		SS56L
Peak Forward Voltage	V_F	V	$I_F=5.0A$	$T_a=25^{\circ}C$	0.50
Peak Reverse Current	I_{RRM1}	mA	$V_{RM}=V_{RRM}$	$T_a=25^{\circ}C$	0.3
	I_{RRM2}			$T_a=100^{\circ}C$	50
Thermal Resistance(Typical)	$R_{\theta JA}$	$^{\circ}C/W$	Between junction and ambient		55
	$R_{\theta JL}$		Between junction and lead		13
Juction Capacitance (Typical)	C_j	pF	Measured at 1MHZ and Applied Reverse Voltage of 4.0 V.D.C		400

Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on FR4 PCB double sided copper mini pad

Typical Characteristics

FIG1.FORWARD CURRENT DERATING CURVE

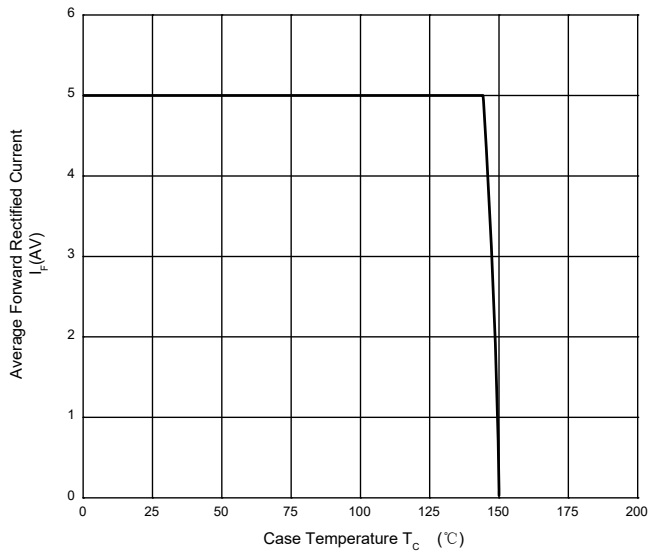


FIG 2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

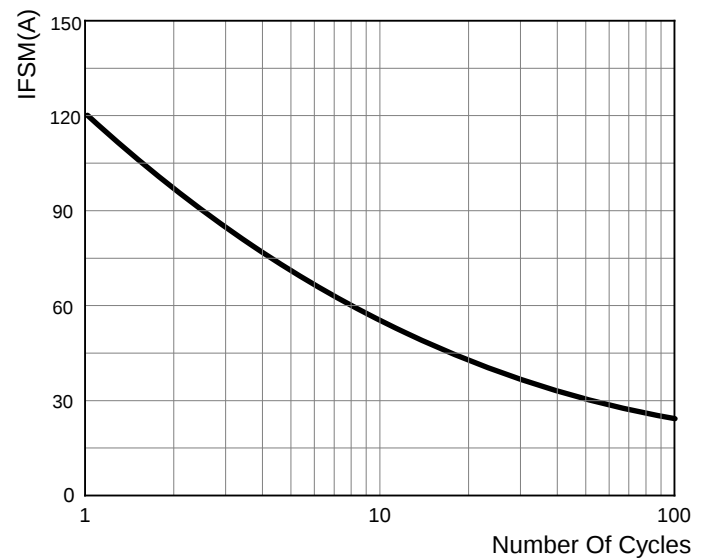


FIG.3: TYPICAL FORWARD CHARACTERISTICS

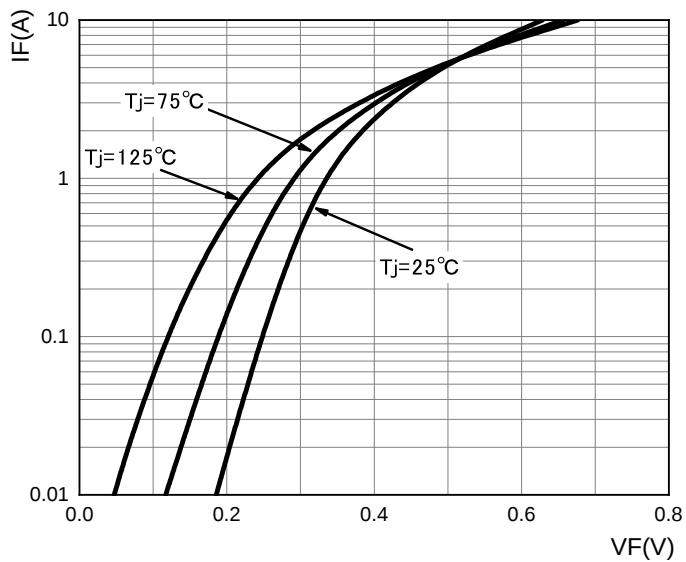
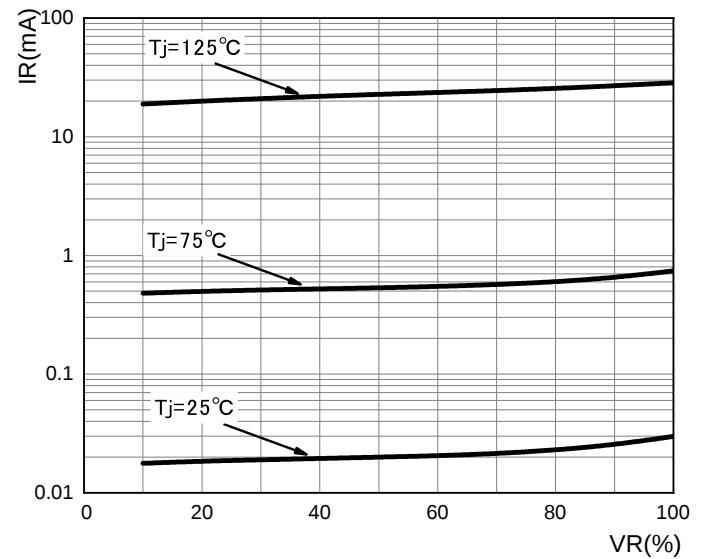
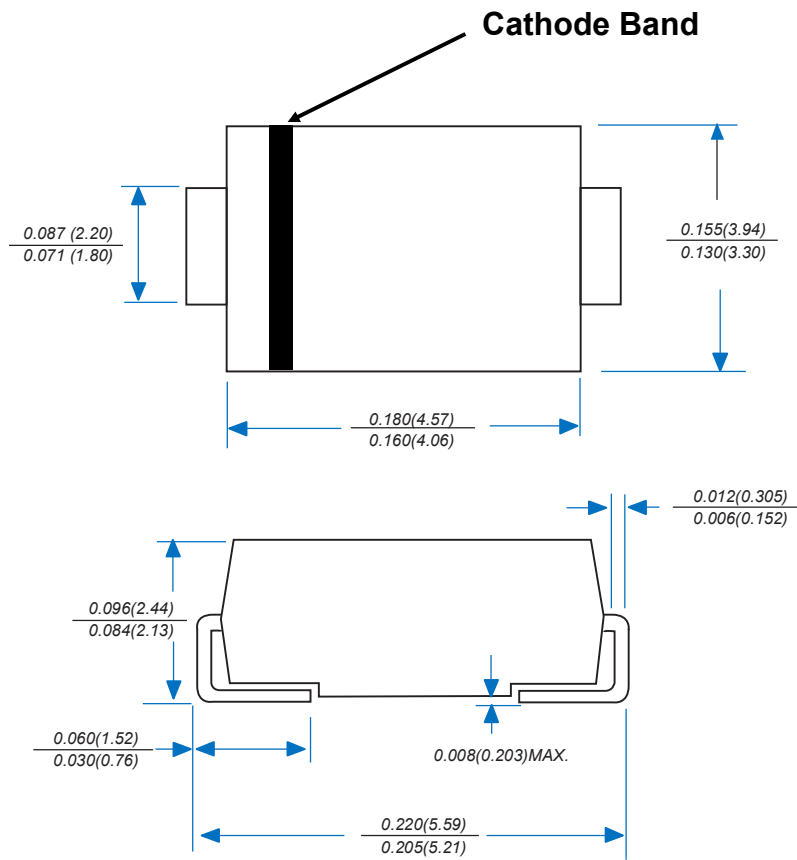


FIG.4: TYPICAL REVERSE CHARACTERISTICS

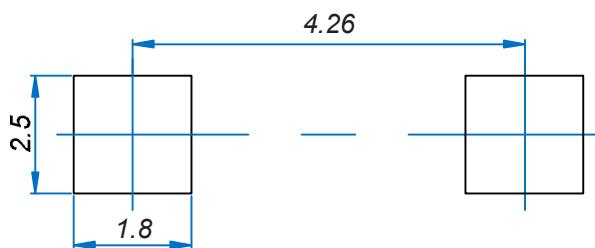


SMB Package outline Dimensions



Dimensions in inches and (millimeters)

SMB Suggested pad Layout



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: ± 0.05 mm.
3. The pad layout is for reference purposes only.