Features

$I_{F(AV)}$ 3A

V_{RRM} 100V

High surge current capability

Polarity: Color band denotes cathode

Applications

Rectifier

SMB

Marking:SS310L

Limiting Values(Absolute Maximum Rating)

Item	Symbol	Unit	Test Conditions	SS310L
Repetitive Peak Reverse Voltage	V_{RRM}	V		100
Maximum RMS Voltage	V_{RMS}	V		70
Maximum DC Blocking Voltage	V_{DC}	V		100
Average Forward Current	$I_{F(AV)}$	A	60Hz Half-sine wave , Resistance load , FIG.1	3.0
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave , 1 cycle, Ta=25℃	120
Junction Temperature	T_J	℃		-55 ~ +150
Storage Temperature	T_{STG}	℃		-55 ~ +150

Electrical Characteristics (T =25℃Unless otherwise specified)

Item	Symbol	Unit	Test Condition		SS310L
Peak Forward Voltage	V_F	V	I_F=3.0A		0.57(TYP) 0.60(MAX)
Peak Reverse Current	I_{RRM1}	mA	$V_{RM}=V_{RRM}$	Ta=25℃	0.02
	I_{RRM2}			Ta=100℃	20
Thermal Resistance(Typical)	$R_{\theta J-A}$	℃/W	Between junction and ambient		50
	$R_{\theta J-L}$		Between junction and terminal		15

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

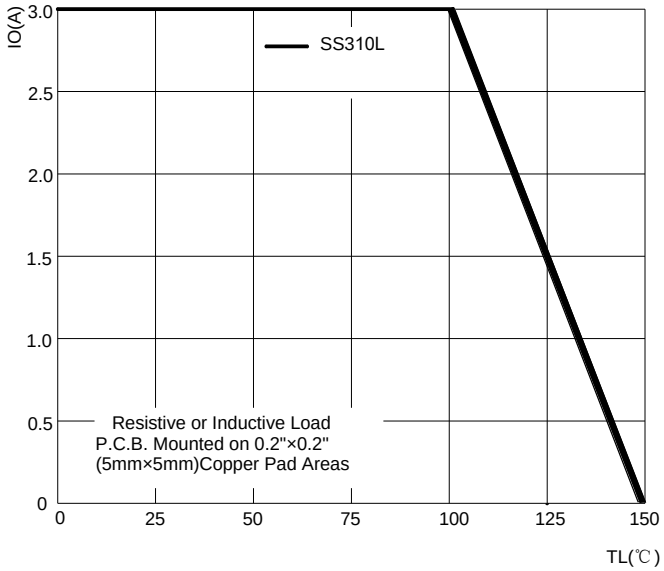


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

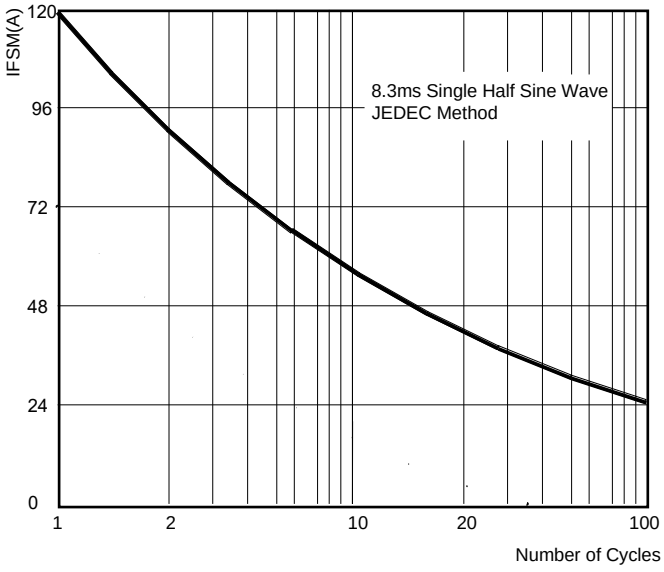


FIG.3: TYPICAL FORWARD CHARACTERISTICS

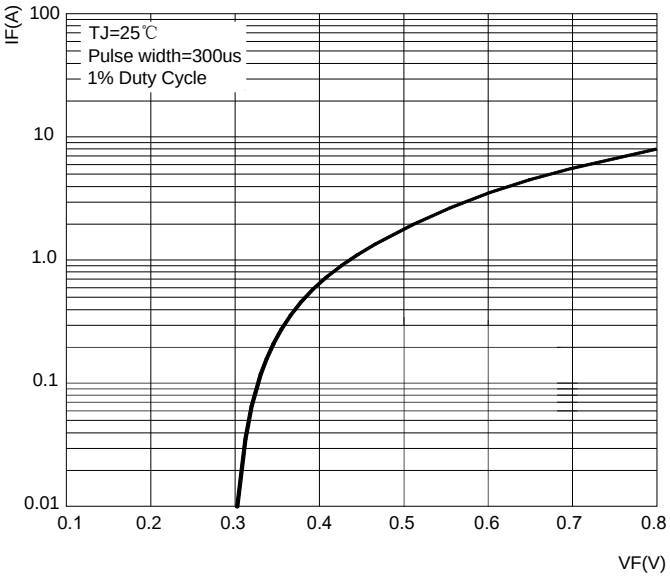
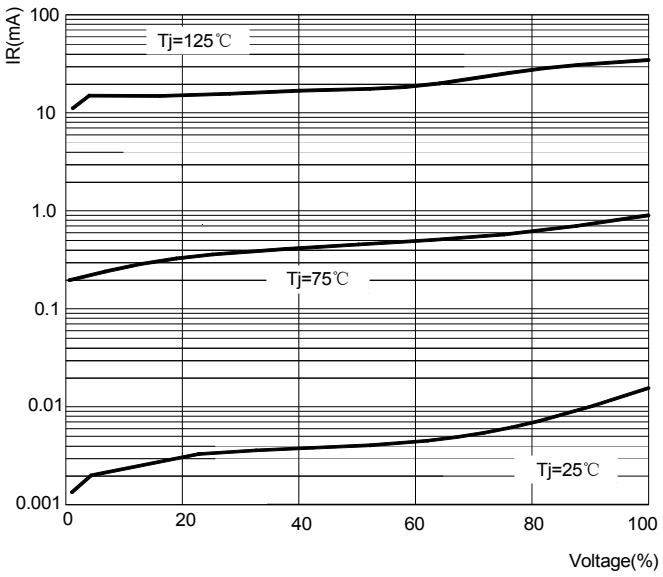
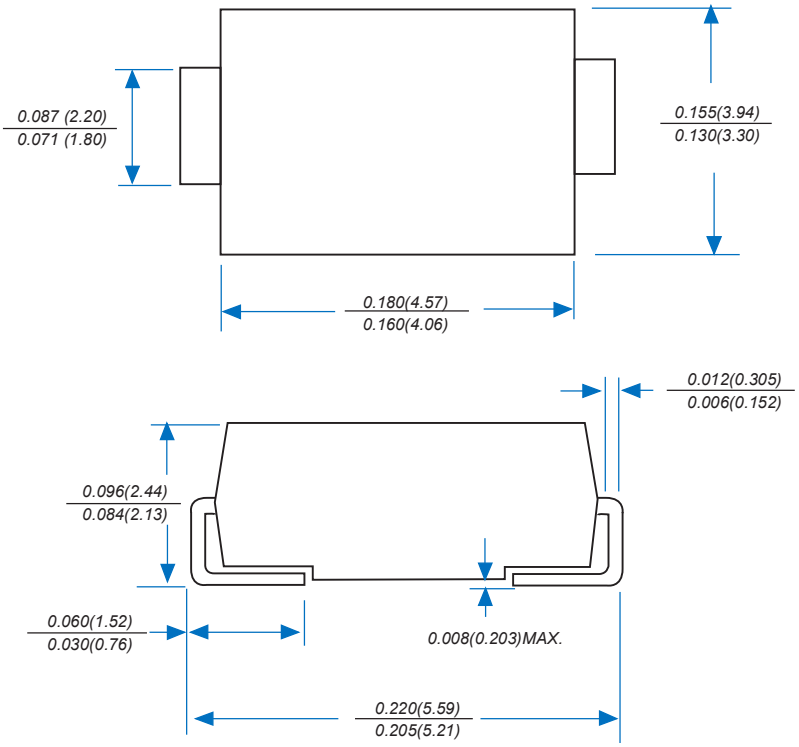


FIG.4：TYPICAL REVERSE CHARACTERISTICS

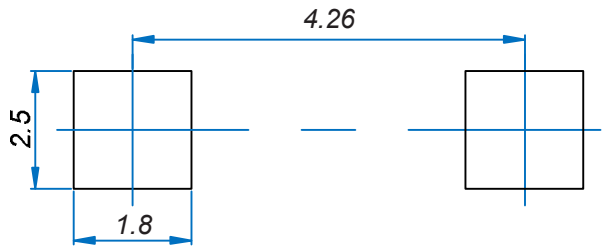


SMB Package outline Dimensions



Dimensions in inches and (millimeters)

SMB Suggested pad Layout



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