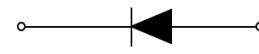


Features

- $I_{F(AV)}$ 5A
- V_{RRM} 20V-200V
- High surge current capability
- Polarity: Color band denotes cathode



Applications

- Rectifier

Marking

- SS5X
- X : From 2 To 20

SMA top view

Schematic diagram



Halogen-Free

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

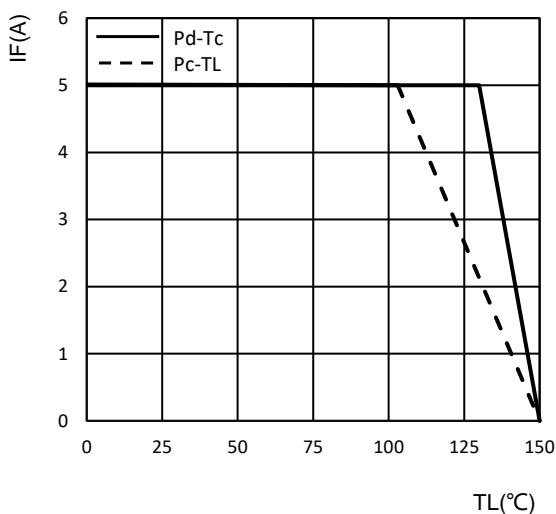
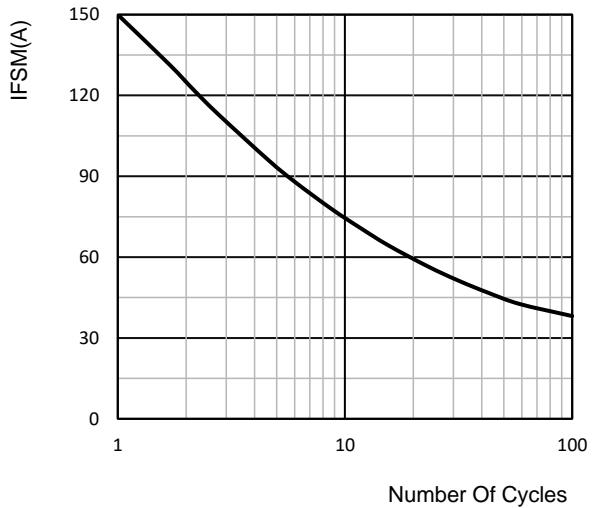
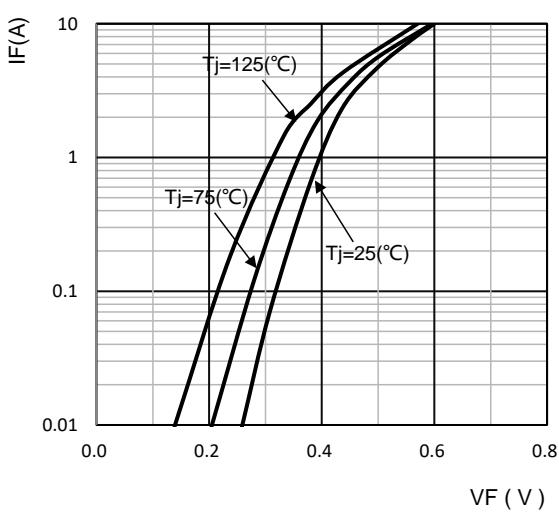
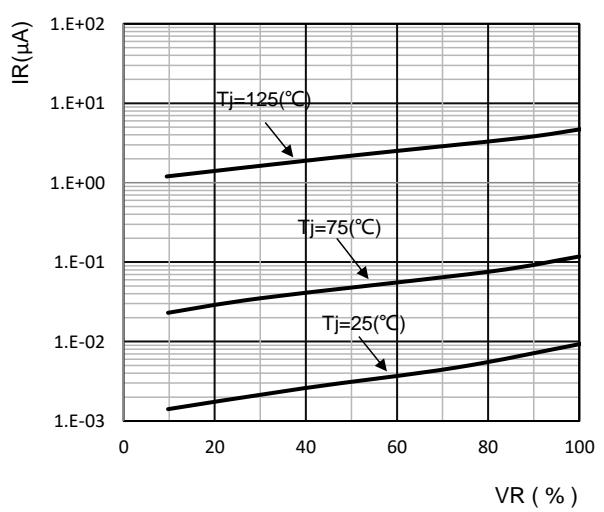
Symbol	Parameter	Test Conditions	SS5									Unit
			2	3	4	5	6	8	10	15	20	
V_{RRM}	Repetitive Peak Reverse Voltage		20	30	40	50	60	80	100	150	200	V
V_{RMS}	Maximum RMS voltage		14	21	28	35	42	56	70	105	140	V
$I_{F(AV)}$	Average Forward Current	60Hz Half-sine wave Resistance load										A
I_{FSM}	Surge(Non-repetitive)Forward Current	60Hz Half-sine wave, 1 cycle, $T_a=25^\circ\text{C}$										A
T_j	Junction Temperature								-55~+150			°C
T_{stg}	Storage Temperature Range								-55~+150			°C

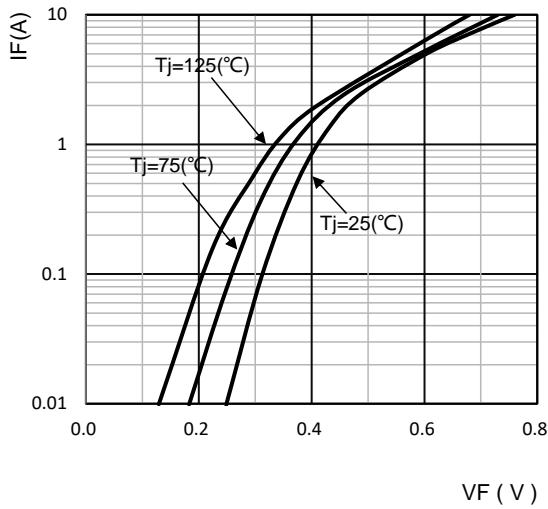
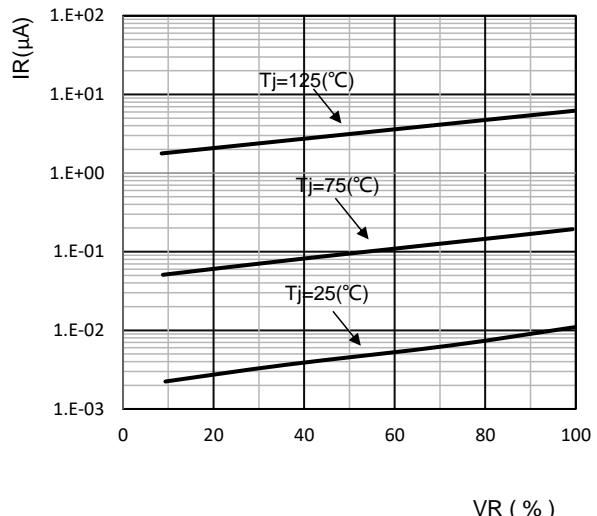
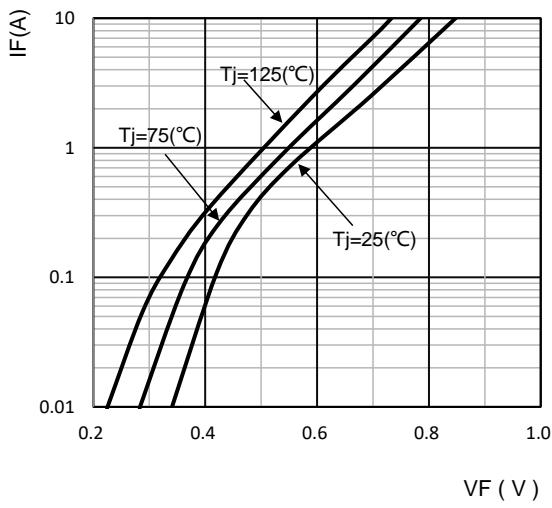
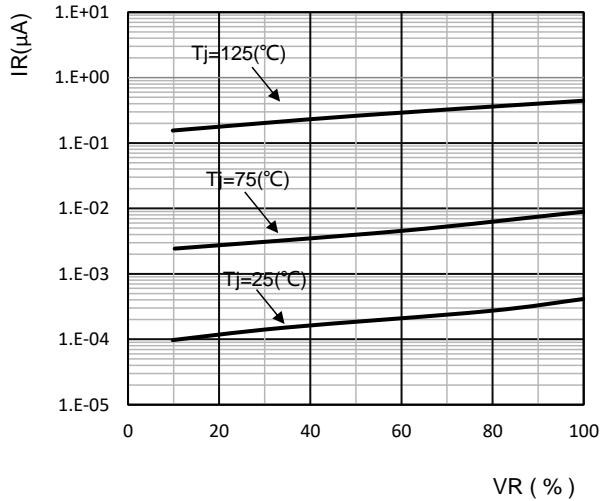
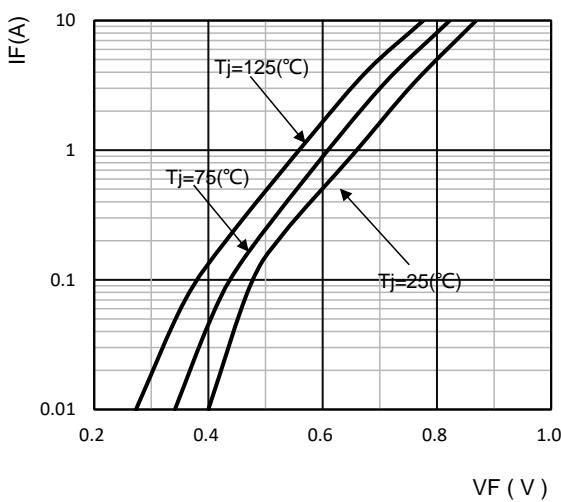
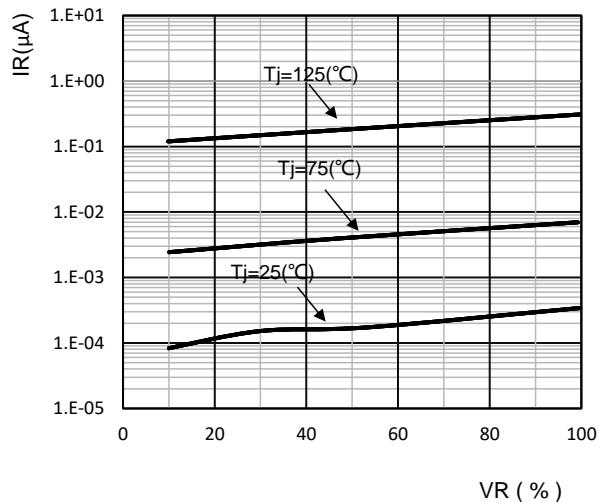
ELECTRICAL CHARACTERISTICS($T_a=25^\circ\text{C}$ unless otherwise specified)

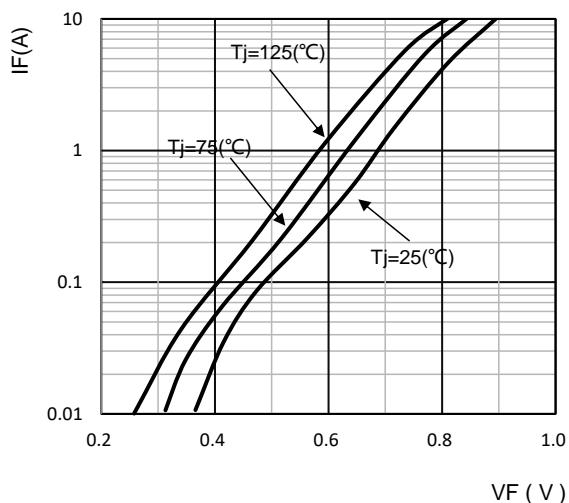
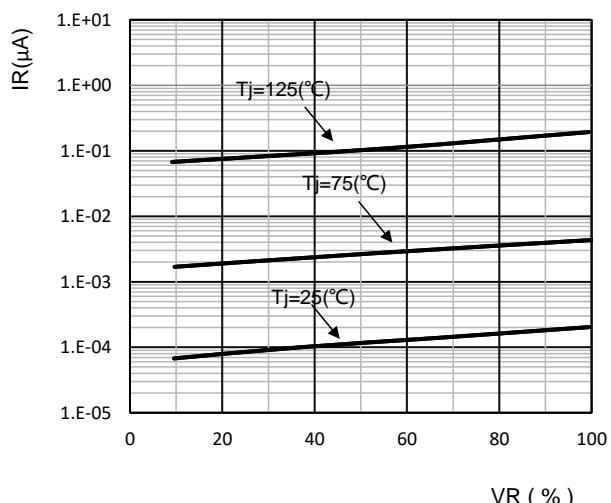
Item	Symbol	Test Condition	SS5									Unit	
			2	3	4	5	6	8	10	15	20		
Peak Forward Voltage	V_F	$I_F = 5.0\text{A}$				0.55		0.70		0.85		0.95	V
Peak Reverse Current	I_{RRM1}	$V_{RM}=V_{RRM}$	$T_a = 25^\circ\text{C}$			0.5				0.1		mA	
	I_{RRM2}	$V_{RM}=V_{RRM}$	$T_a = 100^\circ\text{C}$			10				5			
Thermal Resistance(Typical)	$R_{\theta J-A}$	Between junction and ambient						7.0				°C/W	
	$R_{\theta J-L}$	Between junction and terminal						52.5					
	$R_{\theta J-C}$	Between junction and case						16					
Junction Capacitance (Typical)	C_J	Measured at 1MHZ and Applied Rever Voltage of 4.0 V.D.C			260		220		130	100	80	pF	

Ordering Information (Example)

Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
SS52	SMA	SS52	2,000	10,000	100,000	7" reel
SS53		SS53				
SS54		SS54				
SS55		SS55				
SS56		SS56				
SS58		SS58				
SS510		SS510				
SS515		SS515				
SS520		SS520				

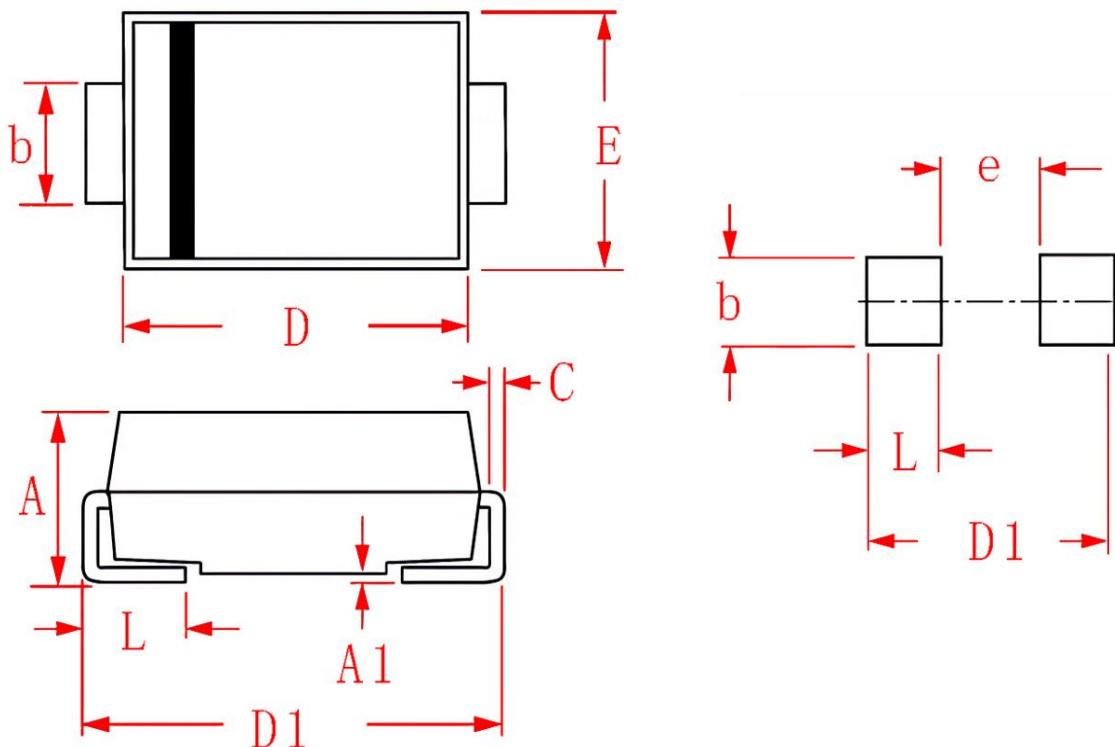
Typical Characteristics
Fig.1 Forward Current Derating Curve

Fig.2 Maximum Non-Repetitive Forward Surge Current

SS52-SS54
Fig.3 Typical Forward Characteristics

SS52-SS54
Fig.4 Typical Reverse Characteristics


SS55-SS56
Fig.5 Typical Forward Characteristics

SS55-SS56
Fig.6 Typical Reverse Characteristics

SS58-SS510
Fig.7 Typical Forward Characteristics

SS58-SS510
Fig.8 Typical Reverse Characteristics

SS515
Fig.9 Typical Forward Characteristics

SS515
Fig.10 Typical Reverse Characteristics


SS520
Fig.11 Typical Forward Characteristics

SS520
Fig.12 Typical Reverse Characteristics


SMA Package information

SMA (DO-214AC)



Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
A	1.900	2.200	0.075	0.087
A1	0.050	0.200	0.002	0.008
b	1.300	1.600	0.051	0.063
C	0.150	0.310	0.006	0.012
D	4.000	4.500	0.157	0.177
D1	4.700	5.200	0.185	0.205
E	2.300	2.700	0.090	0.106
e	-	1.880	-	0.074
L	0.900	1.500	0.035	0.059