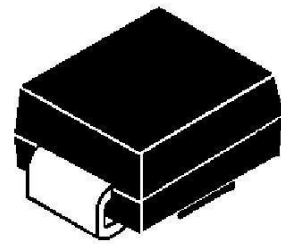


Surface Mount Schottky Barrier Rectifiers

Features

- Ideal for automated placement
- Guardring for overvoltage protection
- Low power losses, high efficiency
- Low forward voltage drop
- High surge capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C
- Solder dip 260 °C, 40 s
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC



SMA (DO-214 AC)

Mechanical Date

- **Case:** DO-214AC (SMA)
- Epoxy meets UL 94V-0 flammability rating
- **Terminals:** Matte tin plated leads, solderable per J-STD-002 and JESD22-B102
E3 suffix for consumer grade, meets JESD 201 class
1A whisker test, HE3 suffix for high reliability grade (AEC Q101 qualified), meets JESD 201 class 2 whisker test
- **Polarity:** Color band denotes cathode end

Major Ratings and Characteristics

$I_{F(AV)}$	2.0 A
V_{RRM}	20 V to 100 V
I_{FSM}	75 A
V_F	0.50V, 0.70V, 0.85V
T_j max.	125 °C

Electrical Characteristics ($T_A = 25\text{ °C}$ unless otherwise noted)

Items	Test conditions	Symbol	SS22A~24A	SS25A~26A	SS28A~210A	UNIT
Instantaneous forward voltage	$I_F=1.0A$	V_F	0.50	0.75	0.85	V
Reverse current	$V_R=V_{DC}$	$T_j=25\text{ °C}$	0.5			mA
		$T_j=100\text{ °C}$	5.0			

Maximum Ratings & Thermal Characteristics ($T_A = 25\text{ }^\circ\text{C}$ unless otherwise noted)

Items	Symbol	SS22A	SS23A	SS24A	SS25A	SS26A	SS28A	SS29A	SS210A	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	80	90	100	V
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	56	63	70	V
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	80	90	100	V
Maximum average forward rectified current	$I_{F(AV)}$	2								A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	75								A
Voltage rate of change(rated VR)	dv/dt	10000								V/ μ s
Thermal resistance from junction to lead	$R_{\theta JL}$	35								$^\circ\text{C/W}$
Operating junction and storage temperature range	T_J, T_{STG}	-65 to +125								$^\circ\text{C}$

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

Fig 1. Forward Current Derating Curve

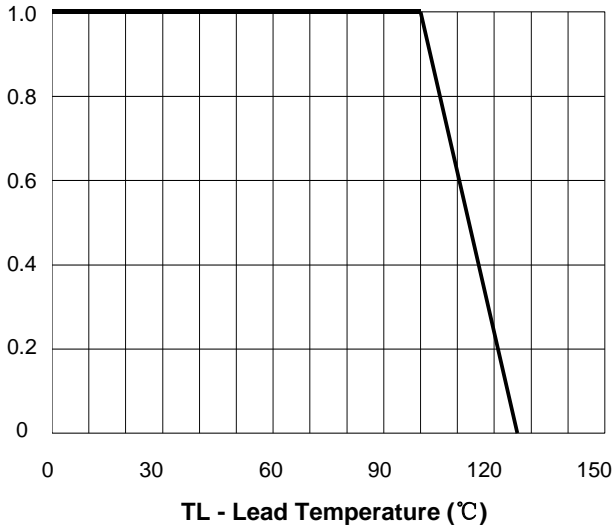


Fig 2. Maximum Non-Repetitive Peak Forward Surge Current

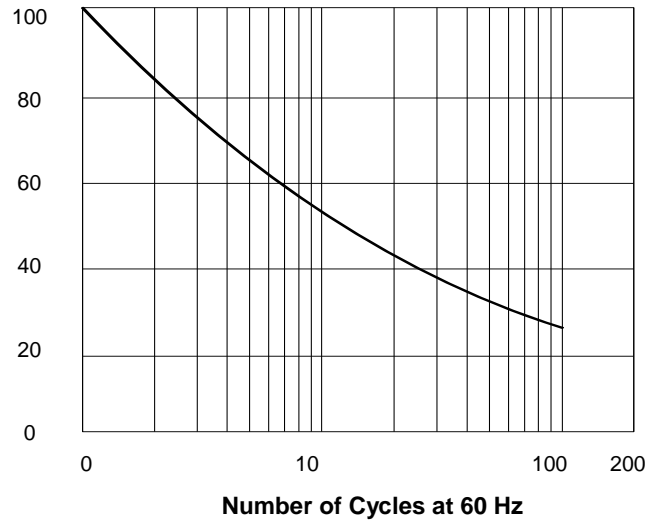
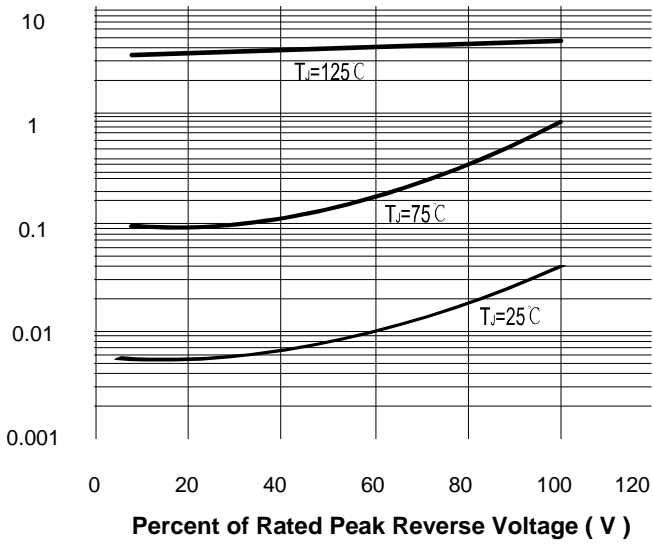
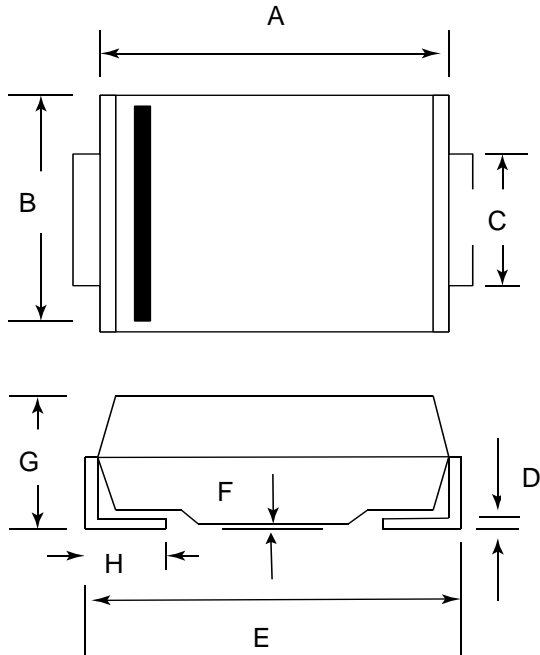


Fig3. Typical Reverse Leakage



SMA Package Outline Dimensions



Dim	Millimeters		Inches	
	Min	Max	Min	Max
A	3.99	4.50	0.157	0.177
B	2.54	2.79	0.100	0.110
C	1.25	1.65	0.049	0.065
D	0.152	0.305	0.006	0.012
E	4.93	5.28	0.194	0.208
F	----	0.203	----	0.008
G	1.98	2.29	0.078	0.090
H	0.76	1.52	0.030	0.060