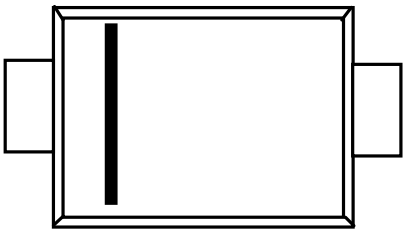
伯恩半导体
BORN SEMICONDUCTOR

SS52-SS510

Schottky Barrier Diode

»Features

- For surface mounted applications
- Metal silicon junction,majority carrier conduction
- Low power loss,high efficiency
- Built-in strain relief,ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed:
  250℃/10 seconds at terminals



SMA(DO-214AC)

»General Description

- Case: JEDEC DO -214AC molded plastic
- Terminals: Axial leads. Solderable per MIL - STD - 750 Method 2026
- Polarity: Color band denotes cathode
- Mounting Position: Any

» Maximum Ratings and Electrical Characteristics

Ratings at 25 ℃ ambient temperature unless otherwise specifoed.
Single phase half wave 60HZ. resistive or inductive load. For capacitive load current derate by 20%

CHARACTERISTICS	SYMBOL	SS52	SS53	SS54	SS56	SS58	SS510	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	60	80	100	V
Maximum RMS Voltage	V_{RMS}	14	21	28	42	56	70	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	60	80	100	V
Maximum Average Forward Rectified Current @T_L=100 ℃	$I_{(AV)}$	5.0						A
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed On Rated Load (JEDEC Method)	I_{FSM}	100						A
Maximum Forward Voltage at 5.0A DC	V_F	0.55			0.65		0.85	V
Maximum DC Reverse Current @T_J=25℃	I_R	1.0						mA
at Rated DC Blocking Voltage @T_J=100℃		20						
Typical Junction Capacitance (Note1)	C_J	250						pF
Typical Thermal Resistance (Note2)	$R_{\theta JL}$	10						℃/W
Typical Thermal Resistance (Note3)	$R_{\theta JA}$	50						℃/W
Operating Temperature Range	T_J	-55 to + 150						℃
Storage Temperature Range	T_{STG}	-55 to + 175						℃

NOTES:1.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

»Typical Performance Characteristics ((TJ = 25 °C, unless otherwise noted))

FIG. 1 - FORWARD CURRENT DERATING CURVE

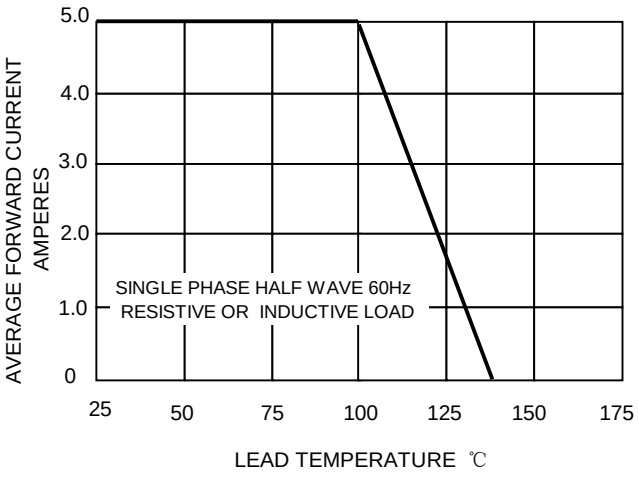


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

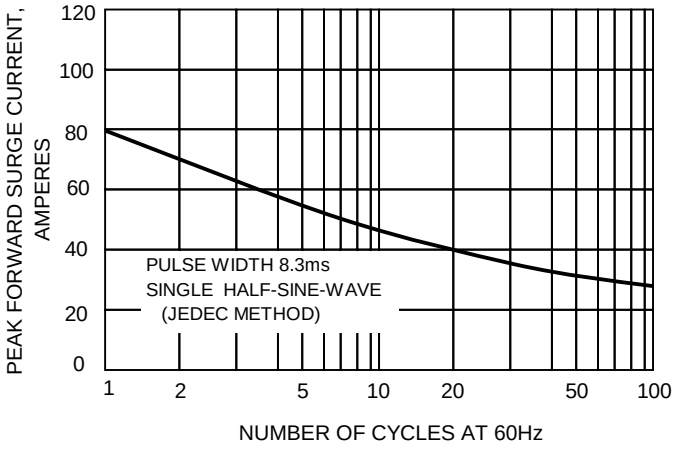


FIG.3-TYPICAL FORWARD CHARACTERISTICS

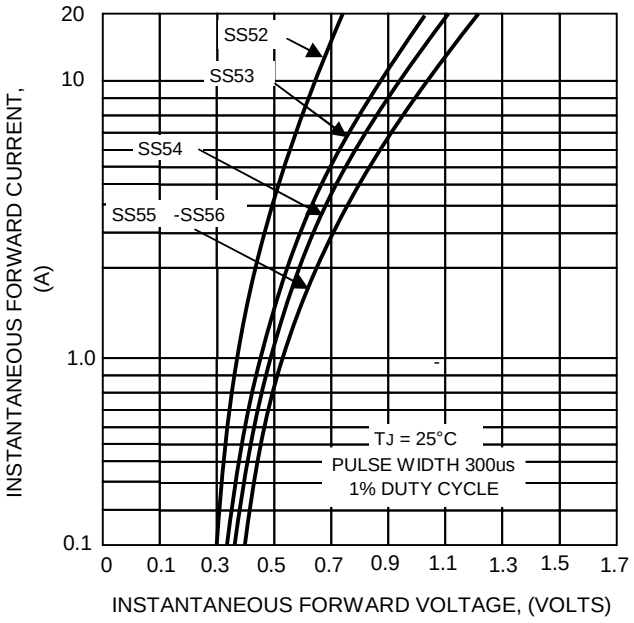


FIG.4-TYPICAL JUNCTION CAPACITANCE

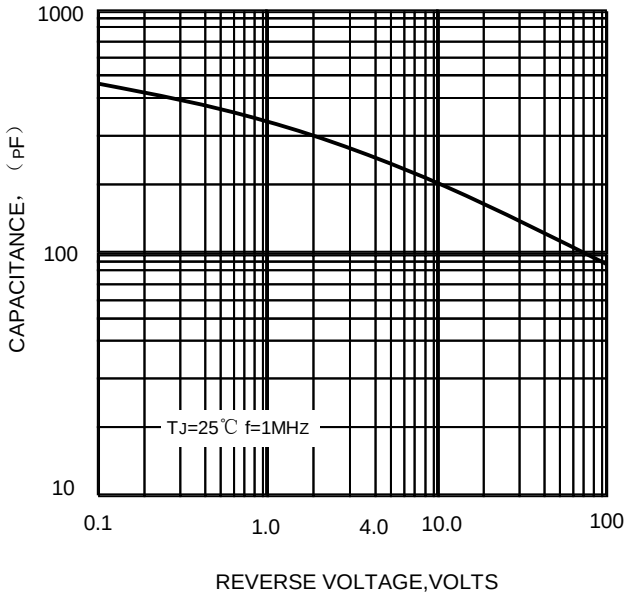
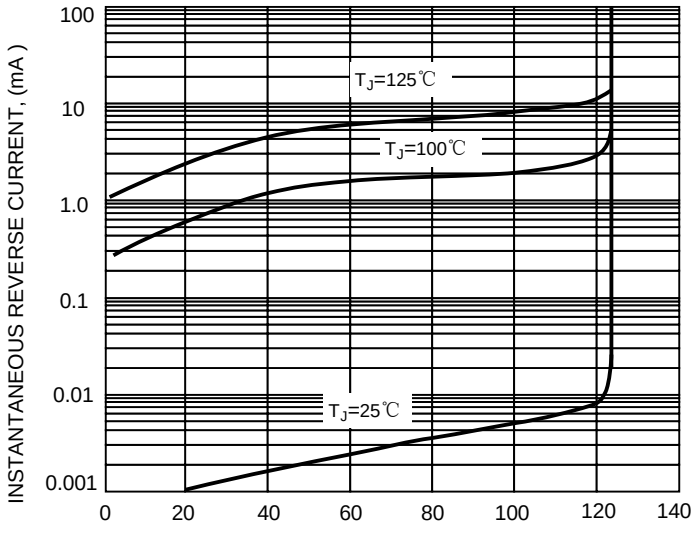
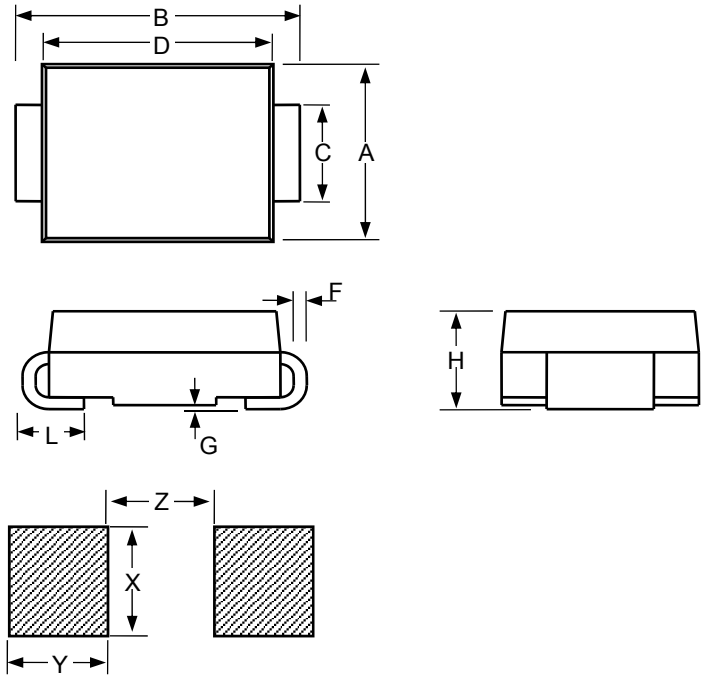


FIG.5-TYPICAL REVERSE CHARACTERISTICS



»Package Information

SMA



SMA						
Dimension	Inches			Millimeters		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.1		0.11	2.54		2.8
B	0.194		0.223	4.93		5.66
C	0.051		0.067	1.3		1.7
D	0.157		0.177	3.99		4.5
F	0.006		0.012	0.152		0.305
G	-		0.008	-		0.203
H	0.078		0.095	1.98		2.42
L	0.03		0.06	0.76		1.52
X		0.085			2.16	
Y		0.07			1.78	
Z		0.079			2	

»Ordering information

Part Number	SS52	SS53	SS54	SS56	SS58	SS510
Marking	SS52	SS53	SS54	SS56	SS58	SS510
Base qty	5K	5K	5K	5K	5K	5K

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