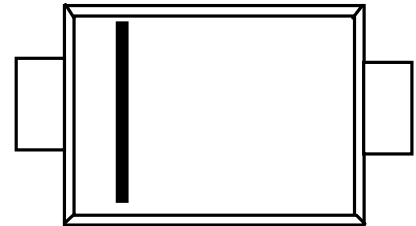


»Features

- 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



SMB(DO-214AA)

»General Description

- Case: JEDEC DO -214AA 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

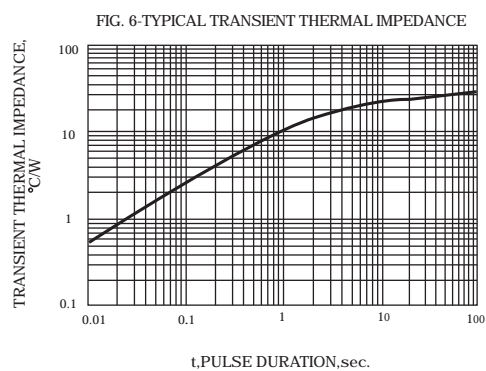
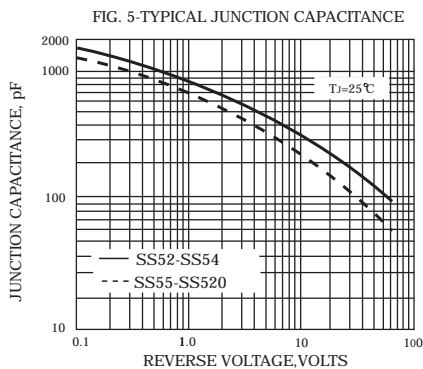
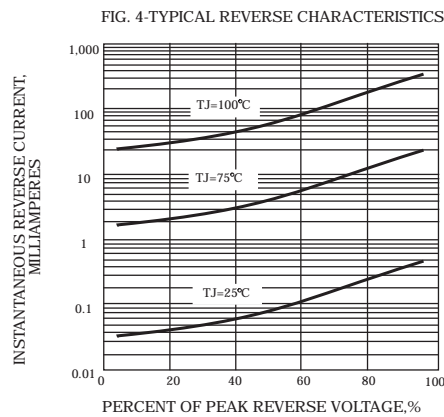
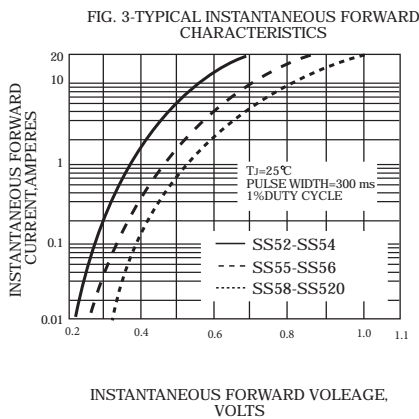
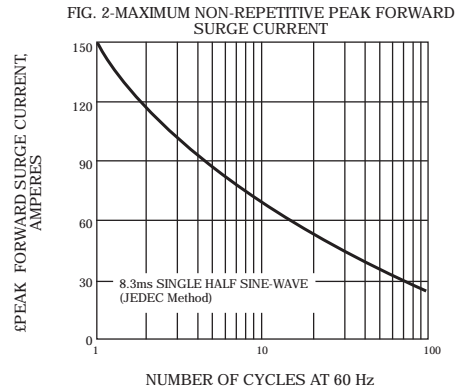
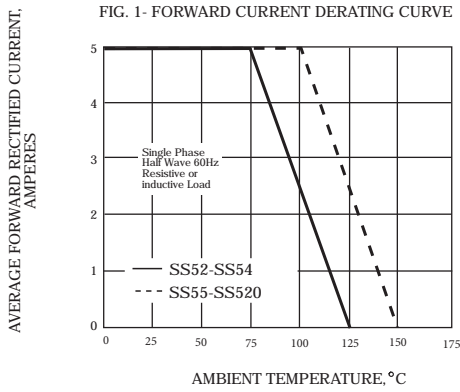
Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half wave 60HZ. resistive or inductive load. For capacitive load current derate by 20%

	SYMBOLS	SS52	SS53	SS54	SS55	SS56	SS58	SS510	SS515	SS520	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	VOLTS
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	VOLTS
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	150	200	VOLTS
Maximum average forward rectified current at T _L (see fig.1)	I _(AV)	5.0									Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	150.0									Amps
Maximum instantaneous forward voltage at 5.0A	V _F	0.45	0.55	0.70				0.85			Volts
Maximum DC reverse current at rated DC blocking voltage	I _R	0.5									mA
		20			10						
Typical junction capacitance (NOTE 1)	C _J	800			500						pF
Typical thermal resistance (NOTE 2)	R _{qJA}	55.0									°C/W
Operating junction temperature range	T _J	-65 to +125			-65 to +150						°C
Storage temperature range	T _{STG}	-65 to +150									°C

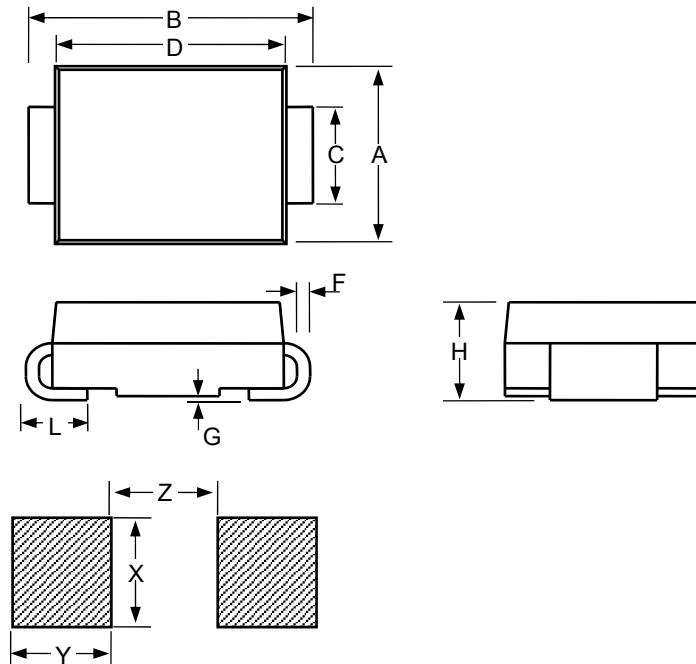
Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

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



»Package Information

SMB



SMB						
Dimension	Inches			Millimeters		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.134	0.144	0.155	3.4	3.67	3.94
B	0.201	0.213	0.224	5.1	5.4	5.7
C	0.067	0.079	0.091	1.7	2.0	2.3
D	0.169		0.185	4.3		4.7
F	0.006		0.012	0.152		0.305
G	-		0.008	-		0.203
H	0.085	0.091	0.096	2.15	2.3	2.45
L	0.03		0.06	0.76		1.52
X		0.11			2.8	
Y		0.079			2	
Z		0.079			2	

»Ordering information

Part Number	SS52	SS53	SS54	SS55	SS56	SS58	SS510	SS515	SS520
Marking	SS52	SS53	SS54	SS55	SS56	SS58	SS510	SS515	SS520
Base qty	3K	3K	3K	3K	3K	3K	3K	3K	3K

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