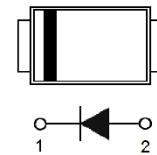


FEATURES

- Low Power Loss, High Efficiency
- High Forward Surge Current Capacity
- Application: Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection



MECHANICAL DATA

- Case: DO-214AB (SMC), Molded Plastic Meet UL94V-0
- Terminals: Solder plated, solderable per MIL-STD-750, method 2026 guaranteed.
- Polarity: Color Band denotes Cathode end

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

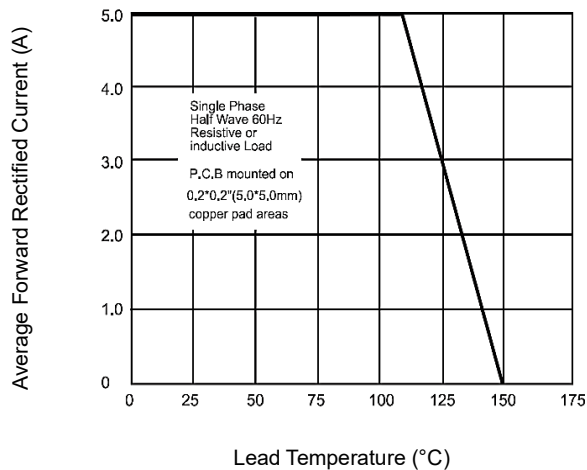
Parameter		Symbol	SS 52C	SS 53C	SS 54C	SS 55C	SS 56C	SS 58C	SS 510C	SS 515C	SS 520C	Unit
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS Voltage		V_{RMS}	14	21	28	35	42	56	70	105	140	V
Maximum Continuous Reverse Voltage		V_R	20	30	40	50	60	80	100	150	200	V
Maximum Average Forward Rectified Current (See Fig. Typical Forward Current Derating Curve)		$I_{F(AV)}$	5.0									A
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	150									A
Maximum Forward Voltage at $I_F=5.0A$		V_F	0.55			0.70		0.85		0.92		V
Maximum Reverse Current at Rated DC Blocking Voltage	$T_A=25^{\circ}C$	I_R	0.5					0.1				mA
	$T_A=100^{\circ}C$		10					5				
Typical Thermal Resistance-Junction to Ambient		$R_{\theta JA}$	50									$^{\circ}C/W$
Diode Junction Capacitance at $f=1MHz$ and Applied 4V DC Reverse Voltage		C_J	200									pF
Operating Junction Temperature Range		T_J	-55 to +150									$^{\circ}C$
Storage Temperature Range		T_{STG}	-65 to +150									$^{\circ}C$

Note:

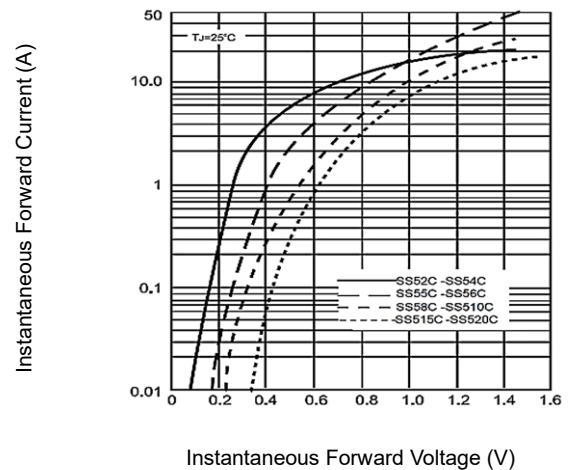
1. Ratings at 25°C ambient temperature unless otherwise specified.
2. Thermal resistance from junction to lead mounted on P.C.B. with 0.2 x 0.2 (5 x 5 mm) copper pad areas

CHARACTERISTIC CURVES

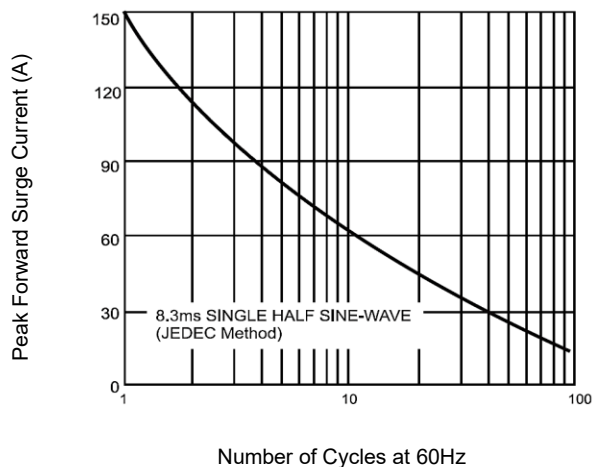
Typical Forward Current Derating Curve



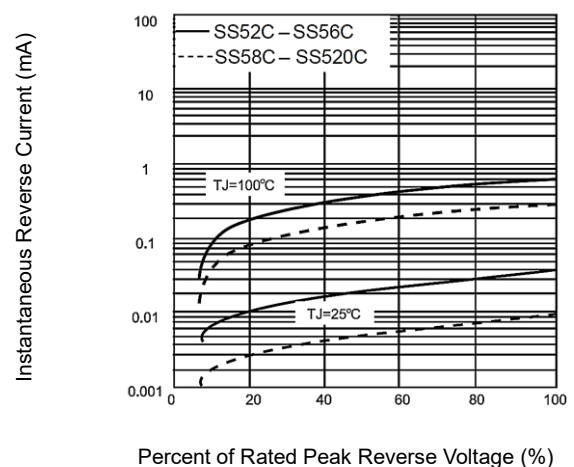
Typical Instantaneous Forward Characteristics



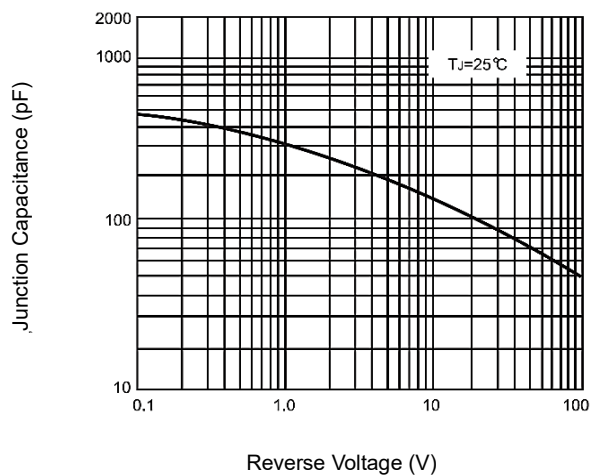
Maximum Non-Repetitive Forward Surge Current



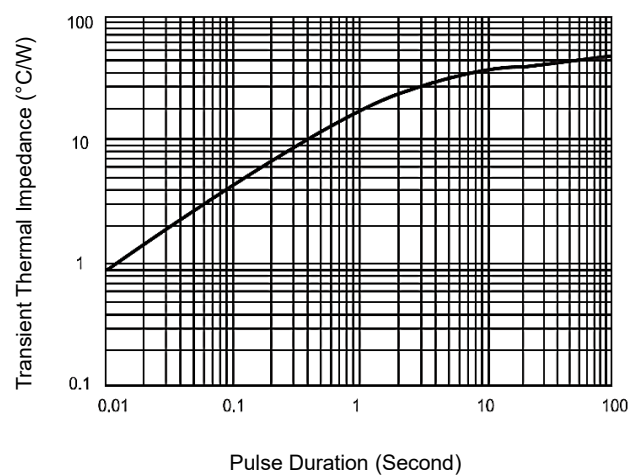
Typical Reverse Characteristics



Typical Junction Capacitance



Typical Transient Thermal Impedance



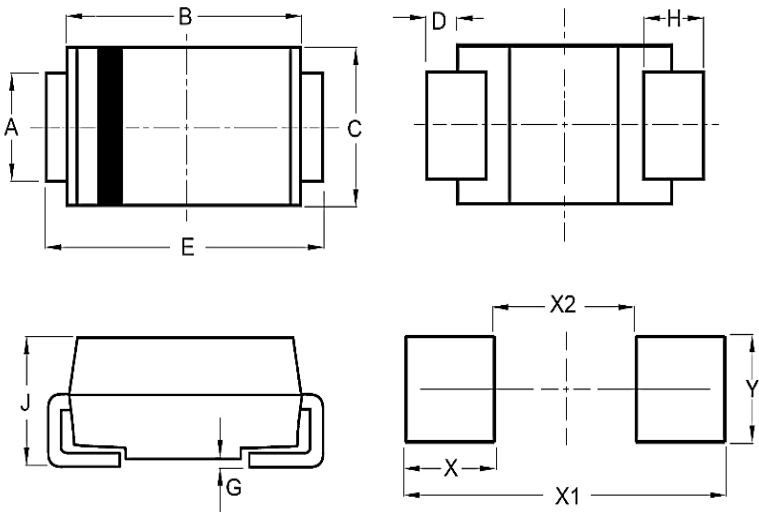
Schottky Barrier Rectifier
5A, 20~200V DO-214AB SMC

SS5-C Series

MERITEK

DIMENSIONS

Item	Min. (mm)	Max. (mm)
A	2.900	3.200
B	6.600	7.110
C	5.590	6.220
D	0.152	0.305
E	7.750	8.130
G	0.000	0.203
H	0.760	1.520
J	2.060	2.700
X	2.500	
X1	9.400	
X2	4.400	
Y	3.300	



*Specifications subject to change without notice