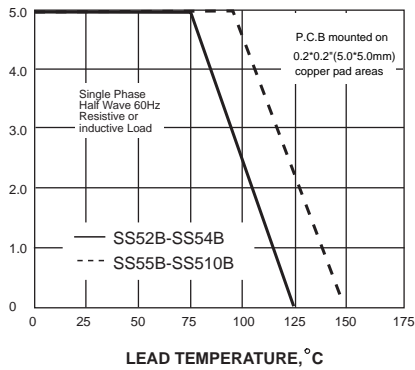


SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER	Reverse Voltage - 20 to 100 Volts Forward Current -5.0 Amperes									
<p><b>DO-214AA</b></p> <p style="text-align: center;"><i>Dimensions in inches and (millimeters)</i></p>	<h3>Features</h3> <ul style="list-style-type: none"> <li>◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0</li> <li>◆ For surface mounted applications</li> <li>◆ Metal silicon junction, majority carrier conduction</li> <li>◆ Low power loss, high efficiency</li> <li>◆ Built-in strain relief, ideal for automated placement</li> <li>◆ High forward surge current capability</li> <li>◆ High temperature soldering guaranteed: 260°C/10 seconds at terminals</li> </ul> <h3>Mechanical Data</h3> <p><b>Case:</b> JEDEC DO-214AA molded plastic body  <b>Terminals:</b> leads solderable per MIL-STD-750, Method 2026  <b>Polarity:</b> Color band denotes cathode end  <b>Mounting Position:</b> Any  <b>Weight:</b> 0.003 ounce, 0.093 grams</p>									
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	SS52B	SS53B	SS54B	SS55B	SS56B	SS58B	SS510B	UNITS	
Maximum repetitive peak reverse voltage	$V_{RRM}$	20	30	40	50	60	80	100	V	
Maximum RMS voltage	$V_{RMS}$	14	21	28	35	42	56	70	V	
Maximum DC blocking voltage	$V_{DC}$	20	30	40	50	60	80	100	V	
Maximum average forward rectified current at $T_L$ (see fig. 1)	$I_{(AV)}$	5.0							A	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	100.0							A	
Maximum instantaneous forward voltage at 5.0A	$V_F$	0.55		0.70		0.85		V		
Maximum DC reverse current at rated DC blocking voltage $T_A=25^\circ\text{C}$ $T_A=100^\circ\text{C}$	$I_R$	0.5				0.1		mA		
		20				10				
Typical junction capacitance (NOTE 1)	$C_J$	200							pF	
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	68.0							°C/W	
Operating junction temperature range	$T_J$	-55 to +125			-55 to +150				°C	
Storage temperature range	$T_{STG}$	-55 to +150								°C
<p><b>Note:</b> 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.                  2. P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas</p>										

**RATINGS AND CHARACTERISTIC CURVES SS52B THRU SS510B**

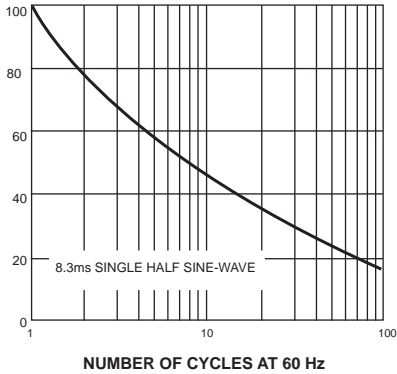
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE



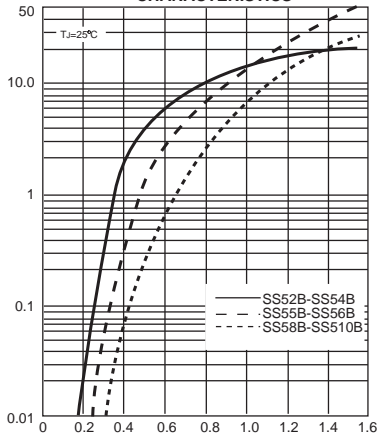
PEAK FORWARD SURGE CURRENT, AMPERES

FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



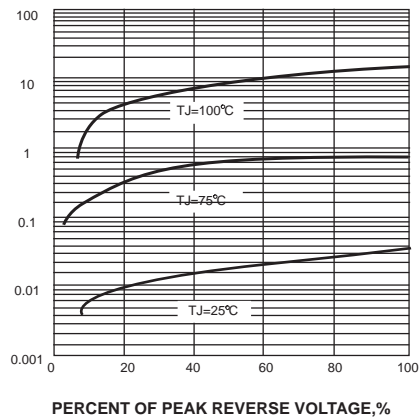
INSTANTANEOUS FORWARD CURRENT, AMPERES

FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



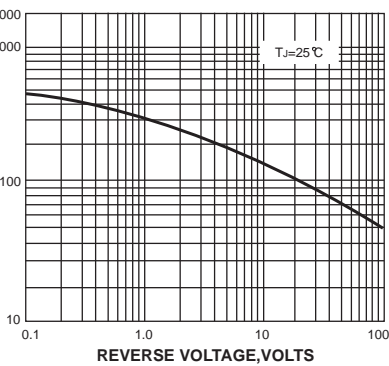
INSTANTANEOUS REVERSE CURRENT, MILLIAMPERES

FIG. 4-TYPICAL REVERSE CHARACTERISTICS



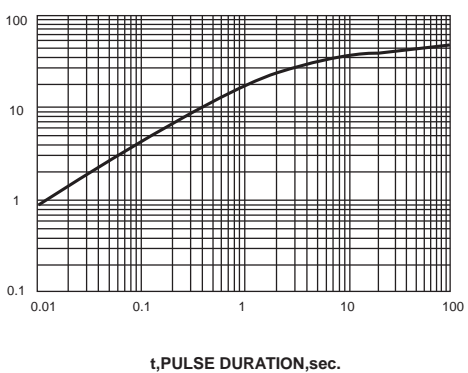
JUNCTION CAPACITANCE, pF

FIG. 5-TYPICAL JUNCTION CAPACITANCE



TRANSIENT THERMAL IMPEDANCE, °C/W

FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



单击下面可查看定价，库存，交付和生命周期等信息

[>>DIOS\(迪恩思\)](#)