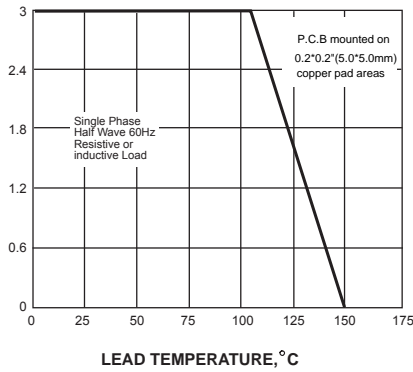


SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER	Reverse Voltage - 150 to 200 Volts Forward Current -3.0 Amperes			
DO-214AC/SMA	Features <ul style="list-style-type: none"> ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0 ◆ For surface mounted applications ◆ Metal silicon 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: 260°C/10 seconds at terminals 			
<p style="font-size: small;">Dimensions in inches and (millimeters)</p>	Mechanical Data <p>Case: JEDEC DO-214AC molded plastic body Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end Mounting Position: Any Weight: 0.002 ounce, 0.07 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	SS315	SS320	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	150	200	V
Maximum RMS voltage	V_{RMS}	105	140	V
Maximum DC blocking voltage	V_{DC}	150	200	V
Maximum average forward rectified current 0.375" (9.5mm) lead length(see fig. 1)	$I_{(AV)}$	3.0		A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	70.0		A
Maximum instantaneous forward voltage at 3.0A	V_F	0.85	0.95	V
Maximum DC reverse current $T_A=25^\circ C$ at rated DC blocking voltage $T_A=100^\circ C$	I_R	0.1		mA
		2.0		
Typical junction capacitance (NOTE 1)	C_J	200		pF
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	75.0		°C/W
Operating junction temperature range	T_J	-55 to +150		°C
Storage temperature range	T_{STG}	-55 to +150		°C
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C. 2. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted				

TYPICAL RATINGS AND CHARACTERISTIC CURVES SS315 THRU SS320

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

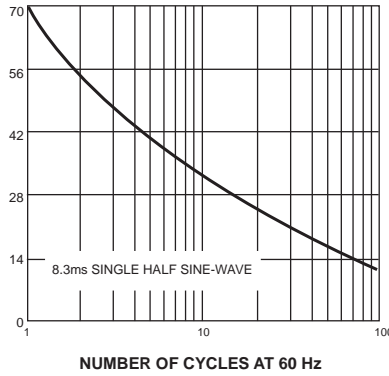


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

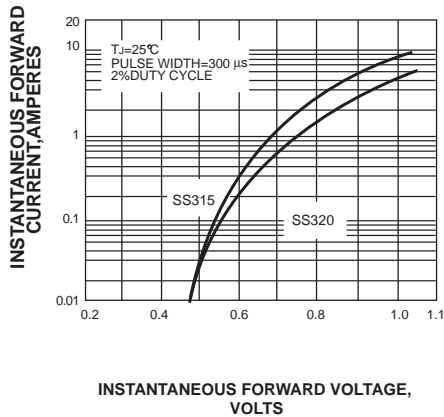


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

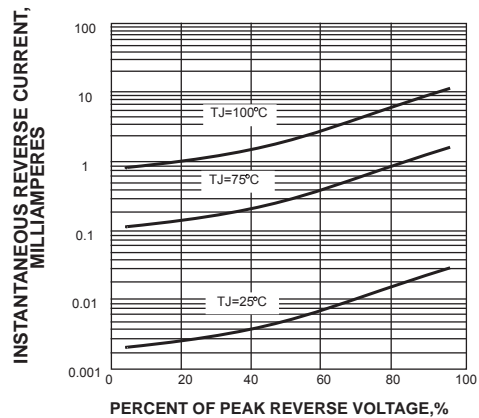


FIG. 5-TYPICAL JUNCTION CAPACITANCE

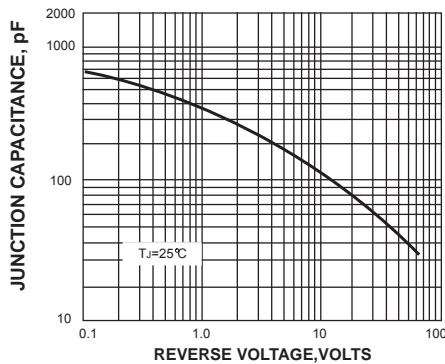


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE

