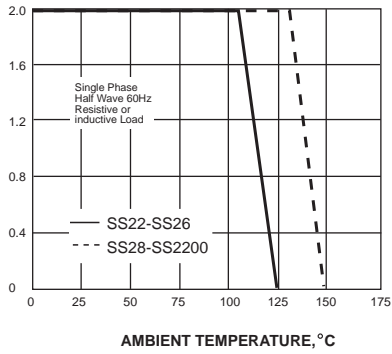


<p style="text-align: center;">DO-214AC/SMA</p> <p style="text-align: center; font-size: small;">Dimensions in inches and (millimeters)</p>	<p style="text-align: center;">FEATURES</p> <ul style="list-style-type: none"> ◆ The plastic package carries Underwriters Laboratory Flammability Classification 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: 250°C/10 seconds at terminals 											
<p>MECHANICAL DATA</p> <p>Case: JEDEC DO-214AC molded plastic body Terminals: leads solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end Mounting Position: Any Weight: 0.070 grams</p>												
<p>MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS</p> <p>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%.</p>												
	SYMBOLS		SS22	SS23	SS24	SS25	SS26	SS28	SS210	SS2150	SS2200	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)	$I_{(AV)}$		2.0									Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}		50.0									Amps
Maximum instantaneous forward voltage at 2.0A	V_F		0.55			0.70		0.85			0.95	Volts
Maximum DC reverse current at rated DC blocking voltage	I_R	$T_A=25^\circ C$	0.5						0.2		mA	
		$T_A=100^\circ C$	10.0				5.0		2.0			
Typical junction capacitance (NOTE 1)	C_J		220				180				pF	
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$		75.0									°C/W
Operating junction temperature range	T_J		-65 to +125					-65 to +150				°C
Storage temperature range	T_{STG}		-65 to +150									°C
<p>Note: 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>												

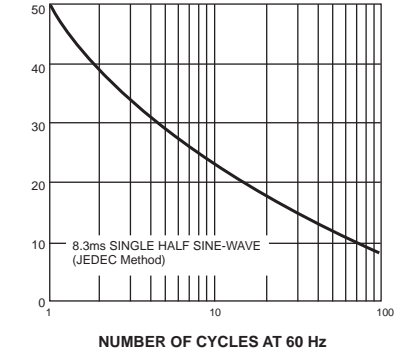
AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE



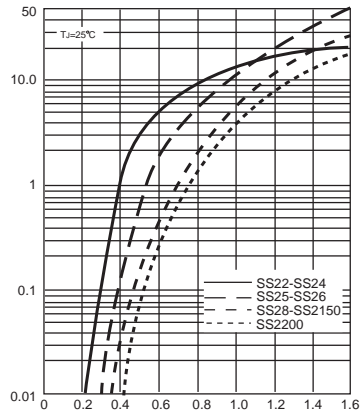
PEAK FORWARD SURGE CURRENT,
AMPERES

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



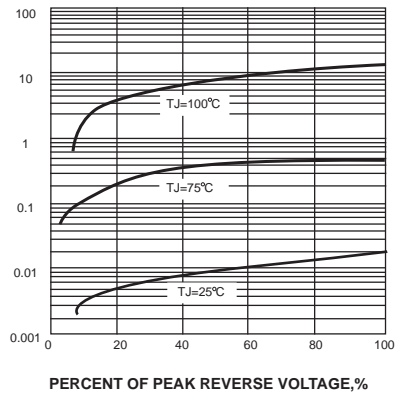
INSTANTANEOUS FORWARD CURRENT,AMPERES

FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



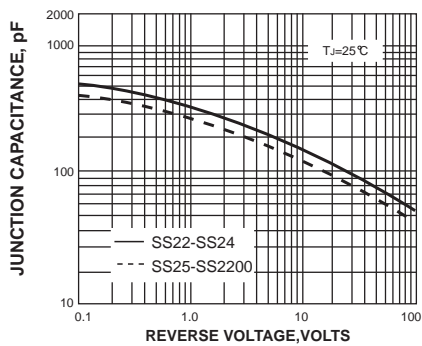
INSTANTANEOUS REVERSE CURRENT,
MILLIAMPERES

FIG. 4-TYPICAL REVERSE CHARACTERISTICS



JUNCTION CAPACITANCE, pF

FIG. 5-TYPICAL JUNCTION CAPACITANCE



TRANSIENT THERMAL IMPEDANCE,
°C/W

FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE

