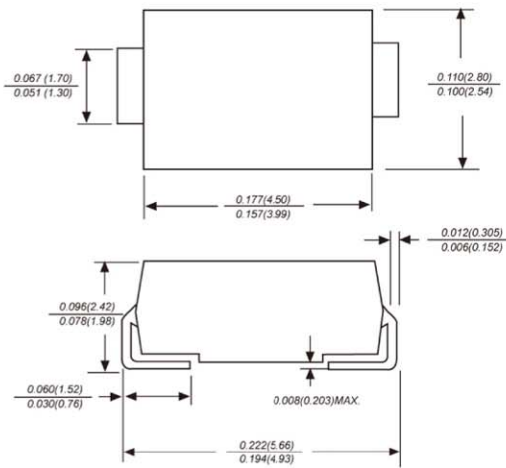


SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

DO-214AC



Dimensions in inches and (millimeters)

Parameters

FEATURES

- ◆ 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

MECHANICAL DATA

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

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	Parameters	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	40	VOLTS
Maximum RMS voltage	V_{RMS}	28	VOLTS
Maximum DC blocking voltage	V_{DC}	40	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	Volts
Maximum DC reverse current at rated DC blocking voltage	I_R	0.5	mA
$T_A=25^{\circ}C$ $T_A=100^{\circ}C$		10.0	
Typical junction capacitance (NOTE 1)	C_J	220	pF
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	75.0	°C/W
Operating junction temperature range	T_J	-65 to +125	°C
Storage temperature range	T_{STG}	-65 to +150	°C

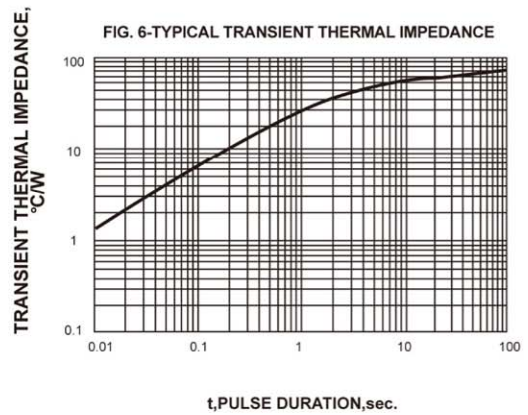
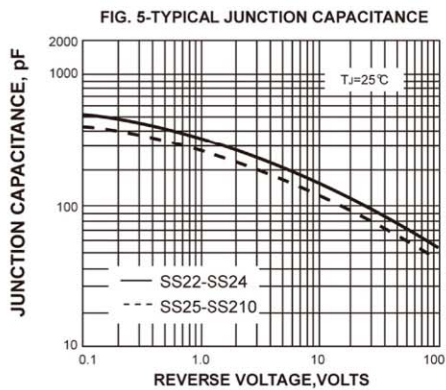
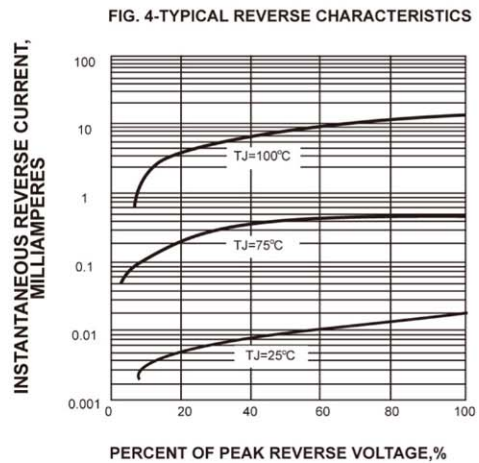
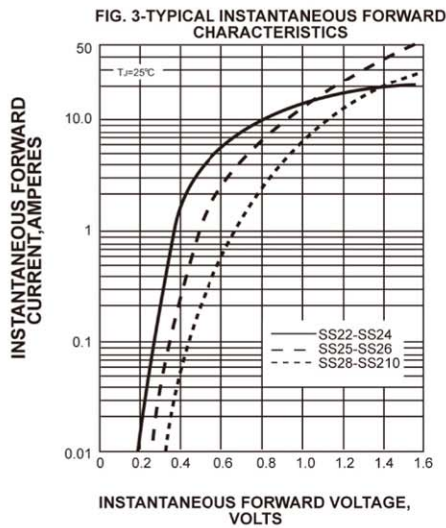
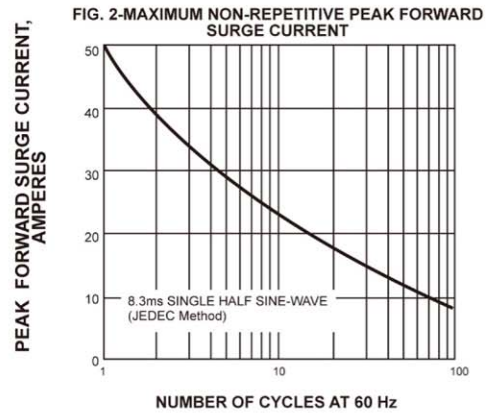
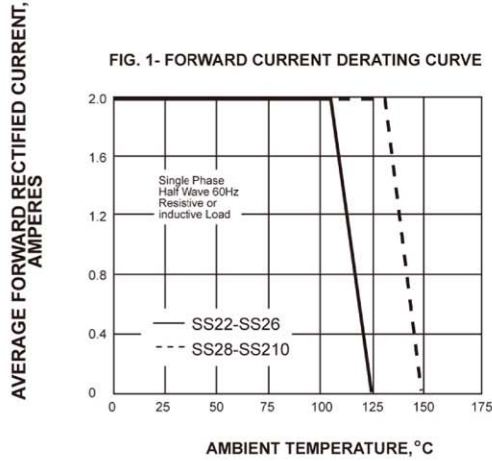
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
 2. P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

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RATINGS AND CHARACTERISTIC CURVES



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