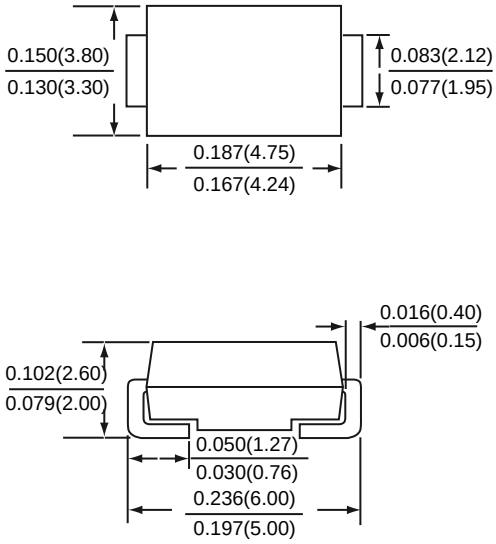
SS22 THRU SS26

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 60 Volts *Forward Current - 2.0 Amperes*

SMB / DO-214AA



*Dimensions in inches and (millimeters)

FEATURES

* Plastic package has Underwriters Laboratory Flammability Classification 94V-0
* For surface mount applications
* Low profile package
* Built-in strain relief
* Metal sillicon junction, majority carrier conduction
* Low power loss, high efficiency
* High current capability, low forward voltage drop
* High surge capability
* For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
* Guardring for overvoltage protection
* High temperature soldering guaranteed : 260°C/10 seconds, at terminals

MECHANICAL DATA

Case : JEDEC DO-214AA molded plastic body
Terminals : Solder plated, solderable per MIL-STD-750D Method 2026
Polarity : Color band denotes cathode end
Weight : 0.003 ounes , 0.093 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.		*SYMBOLS*	***SS22***	***SS23***	***SS24***	***SS25***	***SS26***	*UNITS*
Maximum repetitive peak reverse voltage		V_{RRM}	20	30	40	50	60	Volts
Maximum RMS voltage		V_{RMS}	14	21	28	35	42	Volts
Maximum DC blocking voltage		V_{DC}	20	30	40	50	60	Volts
Maximum average forward rectified current (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					Amps
Maximum instantaneous forward voltage at 2.0 A (NOTE 1)		V_F	0.50			0.70		Volts
Maximum DC reverse current at rated DC blocking voltage (NOTE 1)	T_A=25°C	I_R	0.5					mA
	T_A=100°C		20			10		
Typical thermal resistance (NOTE 2)		$R_{\theta JA}$ $R_{\theta JL}$	75 17					°C / W
Operating junction temperature range		T_J	-65 to +125			-65 to +150		°C
Storage temperature range		T_{STG}	-65 to +150					°C

NOTES : (1) Pulse test : 300us pulse width, 1% duty cycle
(2) P.C.B. mounted with 0.2 x 0.2" (5.0 x 5.0mm) copper pad areas

RATINGS AND CHARACTERISTIC CURVES SS22 THRU SS26

FIG.1 - FORWARD CURRENT DERATING CURVE

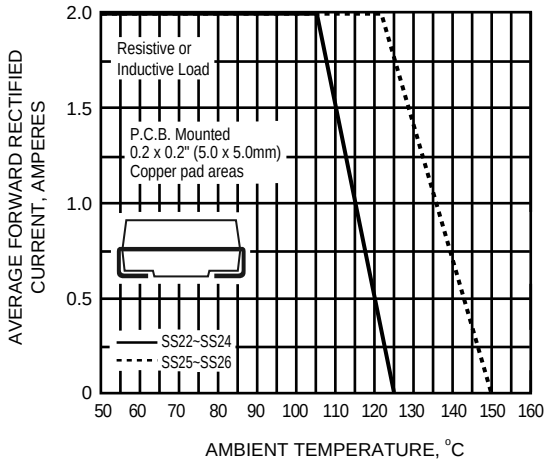


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

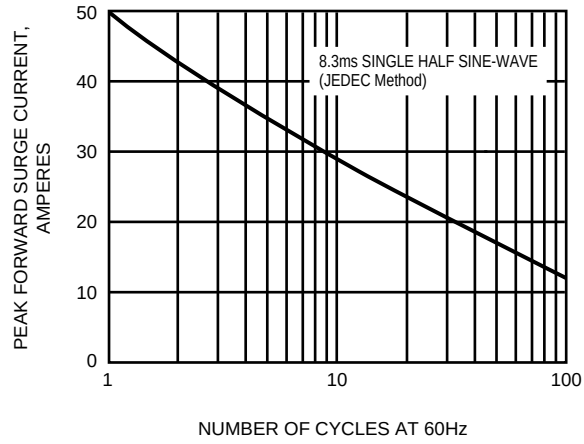


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

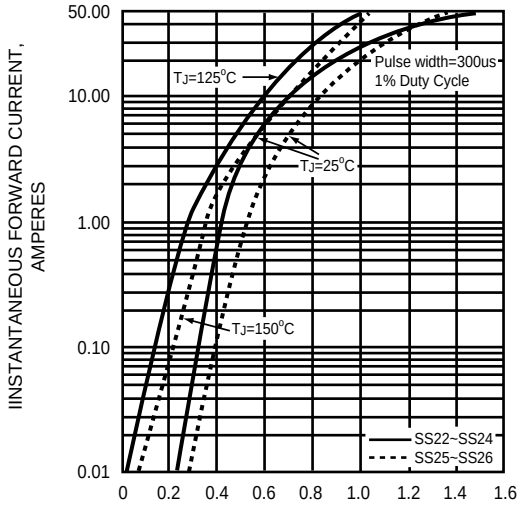


FIG.4 - TYPICAL REVERSE CURRENT CHARACTERISTICS

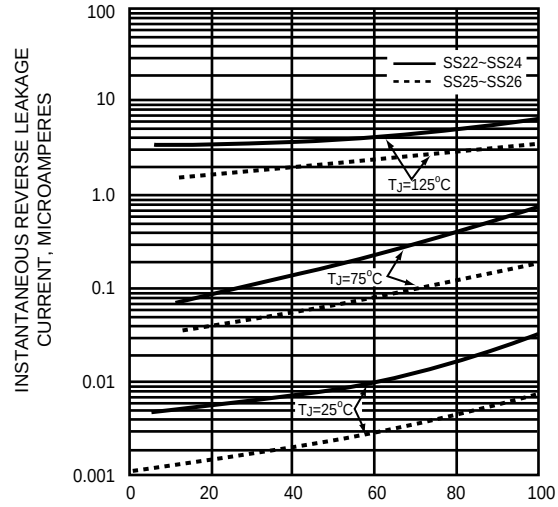


FIG.5 - TYPICAL JUNCTION CAPACITANCE