

SCHTTKY DIODES

FEATURES

- ▶ For use in low voltage, high frequency inverters
- ▶ Free wheeling, and polarity protection applications

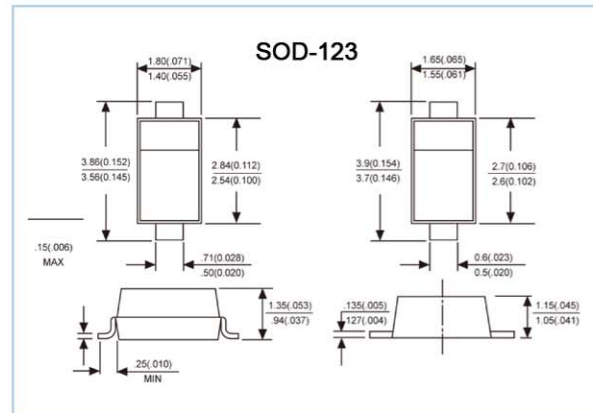
MECHANICAL DATA

Case: Molded plastic body

Terminals: Plated leads solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbols marked on case

Marking: SJ



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Maximum ratings and electrical characteristics, Single diode @ $T_A=25^{\circ}\text{C}$

PARAMETER	SYMBOLS	DIGITAL	UNITS
Peak repetitive peak reverse voltage	V_{RRM}		
Working peak reverse voltage	V_{RWM}	20	V
DC Blocking voltage	V_R		
RMS Reverse voltage	$V_{R(RMS)}$	14	V
Average rectified output current	I_o	1	A
Peak forward surge current @=8.3ms	I_{FSM}	25	A
Repetitive peak forward current	I_{FRM}	625	mA
Power dissipation	P_d	600	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	500	K/W
Storage temperature	T_{STG}	-65 to +150	$^{\circ}\text{C}$
Non-Repetitive peak reverse voltage	V_{RM}	20	V

Electrical ratings @ $T_A=25^{\circ}\text{C}$

PARAMETER	SYMBOLS	Min.	Max.	Unit	Test conditions
Reverse breakdown voltage	$V_{(BR)}$	20		V	$I_R=1\text{mA}$
Reverse voltage leakage current	I_R		1	mA	$V_R=20\text{V}$
Forward voltage	V_F		0.45 0.75	V	$I_F=1\text{A}$ $I_F=3\text{A}$
Diode capacitance	C_D		120	pF	$V_R=4\text{V}, f=1.0\text{MHz}$

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RATINGS AND CHARACTERISTIC CURVES

FIG. 1- FORWARD CURRENT DERATING CURVE

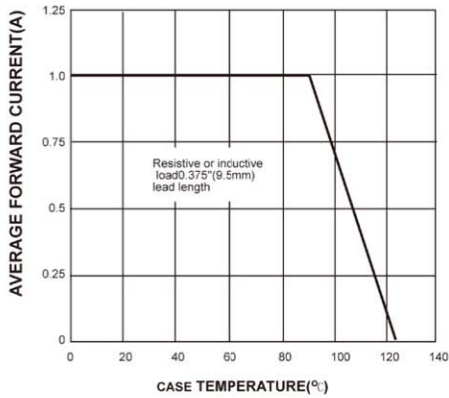


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

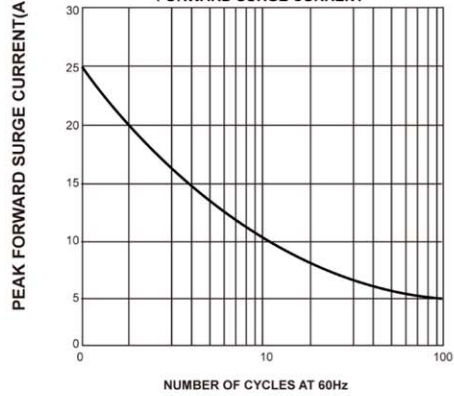


FIG. 3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

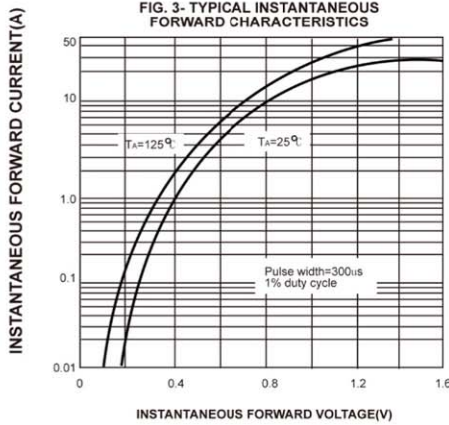


FIG. 4- TYPICAL REVERSE CHARACTERISTICS

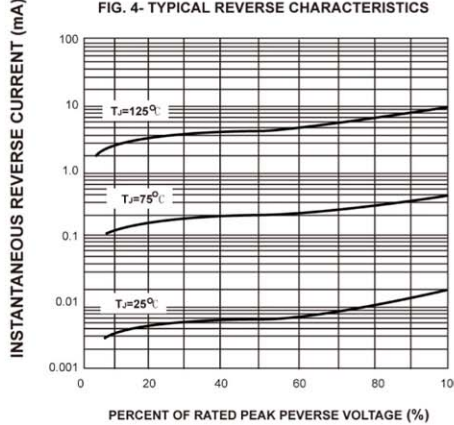


FIG. 5- TYPICAL JUNCTION CAPACITANCE

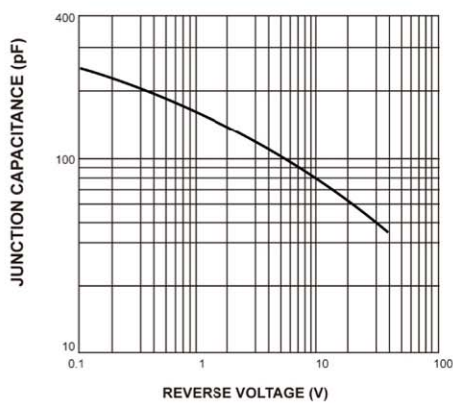
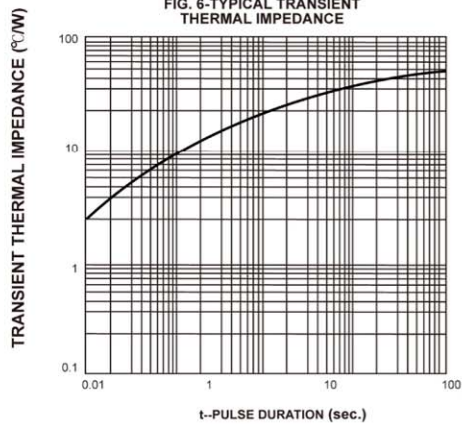


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



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