

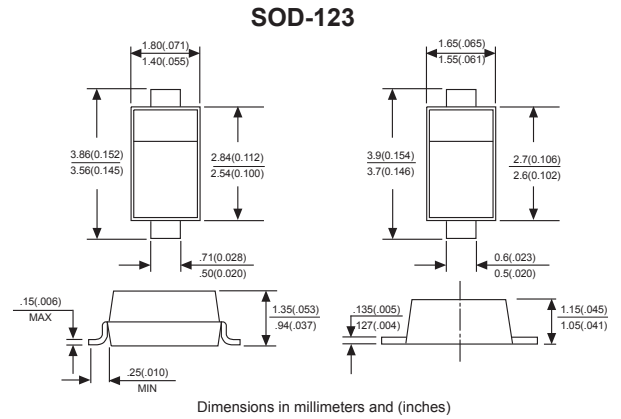
Surface Mount Schottky Barrier Rectifier
Reverse Voltage - 30V Forward Current - 1.5A

FEATURES

- For use in low voltage, high frequency inverters
- Free wheeling, and polanty 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:** 85



Maximum ratings and electrical characteristics, Single diode @T_A=25°C

PARAMETER	SYMBOLS				UNITS
Peak repetitive peak reverse voltage	V _{RRM}	30			V
Working peak reverse voltage	V _{RWM}				
DC Blocking voltage	V _R				
RMS Reverse voltage	V _{R(RMS)}	14	21	28	V
Average rectified output current	I _O	1.5			A
Peak forward surge current @=8.3ms	I _{FSM}	25			A
Repetitive peak forward current	I _{FRM}	625			mA
Power dissipation	P _d	250			mW
Thermal resistance junction to ambient	R _{θJA}	500			K/W
Storage temperature	T _{STG}	-65 to +150			°C
Non-Repetitive peak reverse voltage	V _{RM}	30			V

Electrical ratings @T_A=25°C

PARAMETER	SYMBOLS	Min.	Max.	Unit	Test conditions	
Reverse breakdown voltage	V _(BR)	30		V	I _R =1mA	
Reverse voltage leakage current	I _R		1	mA	V _R =30V	
Forward voltage	V _F		0.55	V	I _F =1.5A	
Diode capacitance	C _D		120	pF	V _R =4V, f=1.0MHz	

FIG. 1- FORWARD CURRENT DERATING CURVE

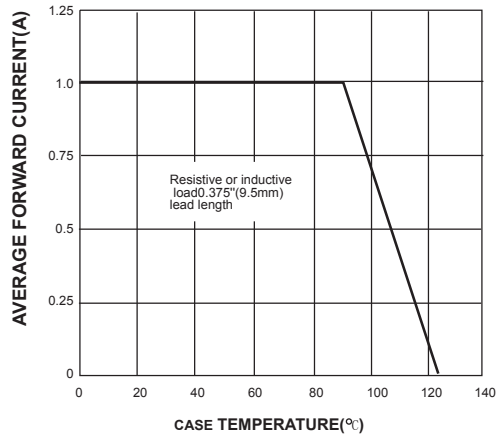


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

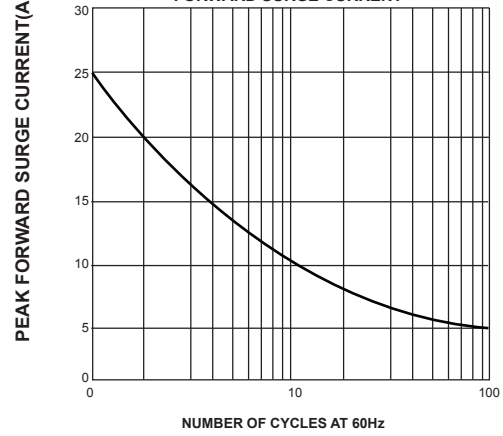


FIG. 3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

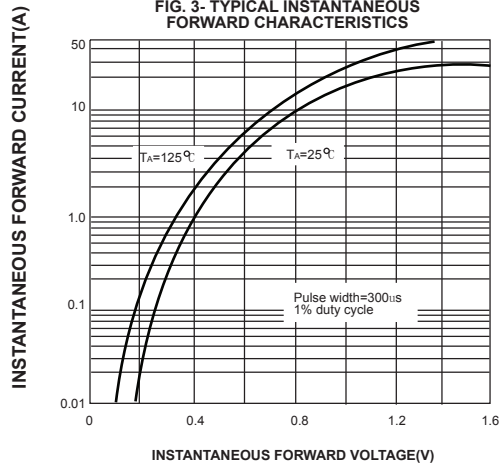


FIG. 4- TYPICAL REVERSE CHARACTERISTICS

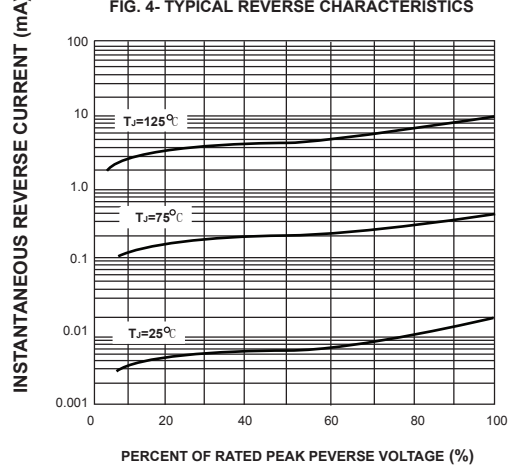


FIG. 5- TYPICAL JUNCTION CAPACITANCE

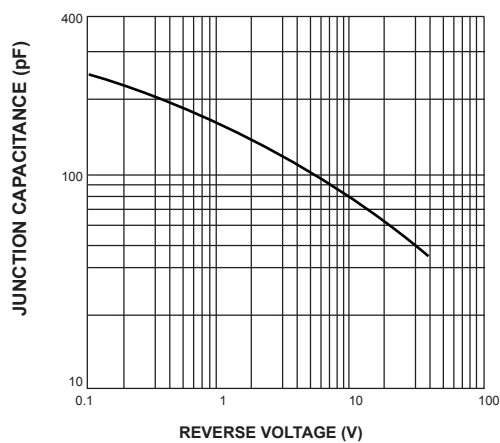


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE

