

## FEATURES

- ◆ For use in low voltage, high frequency inverters
- ◆ Free wheeling, and polanty protection applications

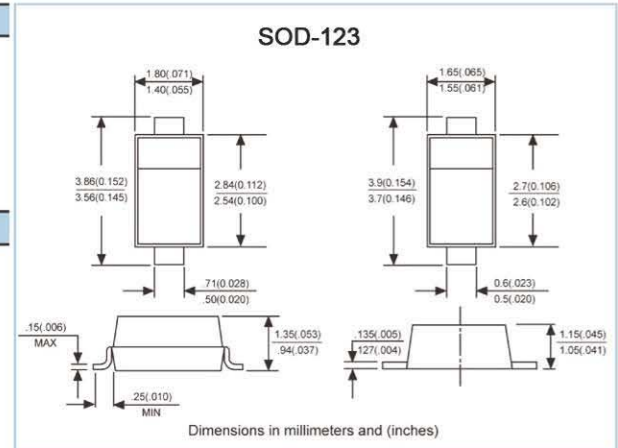
## MECHANICAL DATA

**Case:** Molded plastic body

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

**Polarity:** Polarity symbols marked on case

**Marking:** L4F



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

PARAMETER	SYMBOLS	FIGURE	UNITS
Peak repetitive peak reverse voltage	$V_{RRM}$	40	V
Working peak reverse voltage	$V_{RWM}$		
DC Blocking voltage	$V_R$		
RMS Reverse voltage	$V_{R(RMS)}$	28	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	$P_d$	250	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	$V_{(BR)}$	40		V	$I_R=1\text{mA}$
Reverse voltage leakage current	$I_R$		1	mA	$V_R=20\text{V}$
Forward voltage	$V_F$		0.6	V	$I_F=1\text{A}$
Diode capacitance	$C_D$		120	pF	$V_R=4\text{V}, f=1.0\text{MHz}$

FIG. 1- FORWARD CURRENT DERATING CURVE

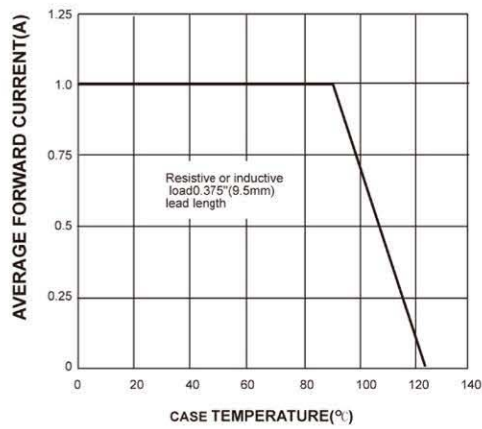


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

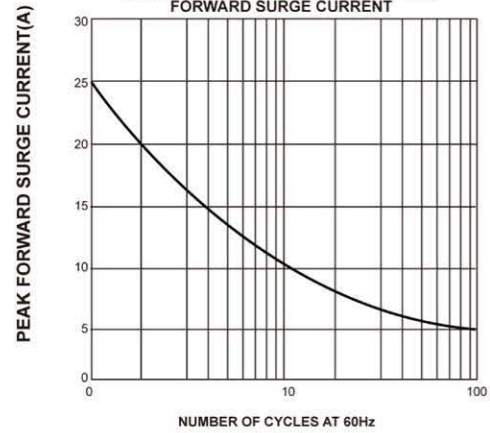


FIG. 3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

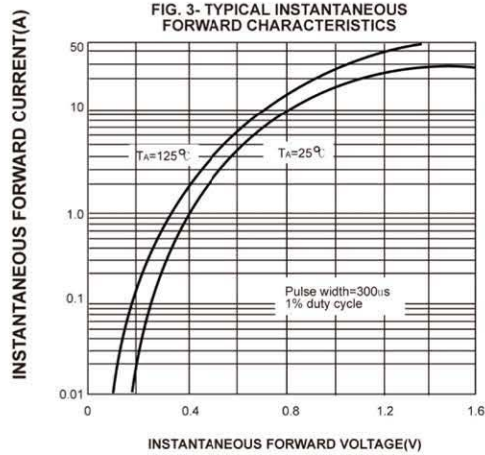


FIG. 4- TYPICAL REVERSE CHARACTERISTICS

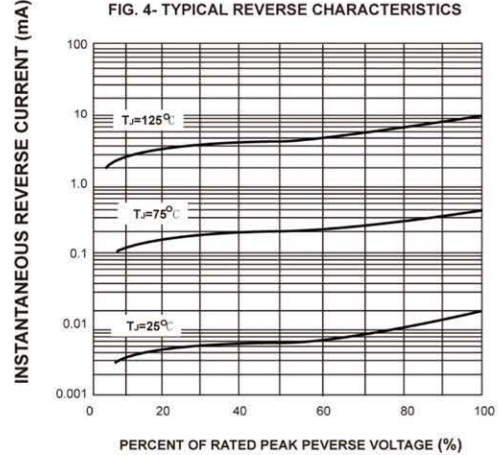


FIG. 5- TYPICAL JUNCTION CAPACITANCE

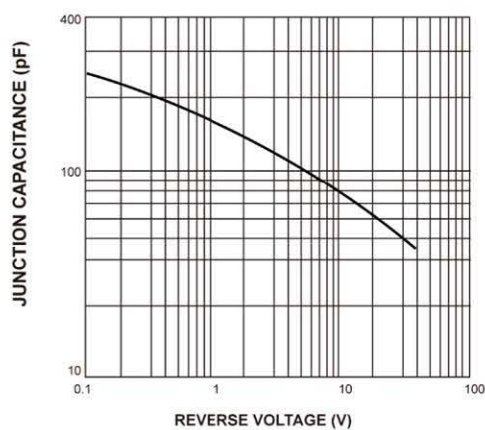


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE

