

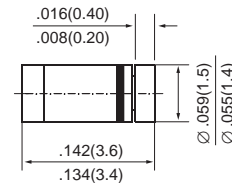
**SCHOTTKY DIODES**

**FEATURES**

- \* Fast Switching Device( $T_{RR}<4.0nS$ )
- \* Mini MELF Glass Case (SOD-80)
- \* Through-Hole Device Type Mounting
- \* Hermetically Sealed Glass
- \* Compression Bonded Construction
- \* All external surfaces are corrosion resistant and leads are readily solderable



**SOD-80**



Dimensions in inches and (millimeters)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25 °C ambient temperature unless otherwise specified.  
 Single phase, half wave, 60 Hz, resistive or inductive load.  
 For capacitive load, derate current by 20%.

**MAXIMUM RATINGS** ( @  $T_A = 25^\circ C$  unless otherwise noted )

RATINGS	SYMBOL	BAS86	UNITS
Maximum Forward Continuous Reverse Voltage	$V_R$	50	V
Maximum Forward Continuous Current @ $T_A=25^\circ C$	$I_F$	200	mAmps
Maximum Peak Forward Current $t_p \leq 1s$	$I_{FM}$	500	mAmps
Surge Forward Current @ $t_p=10ms$	$I_{FSM}$	5	Amps
Maximum Power Dissipation @ $T_A=65^\circ C$	$P_D$	200	mW
Junction Temperature	$T_J$	125	$^\circ C$
Storage Temperature Range	$T_{STG}$	-65 to + 150	$^\circ C$

**ELECTRICAL CHARACTERISTICS** ( @  $T_A = 25^\circ C$  unless otherwise noted )

CHARACTERISTICS	SYMBOL	MIN.	TYP.	MAX.	UNITS
Reverse voltage leakage current ( $V_R=40V$ )	$I_R$	-	-	5	$\mu A$
Forward voltage Pulse Test $t_p < 300\mu s, \delta < 2\%$	$V_F$	-	-	0.30	V
				( $I_F=0.1mA$ )	
				( $I_F=1mA$ )	
				( $I_F=10mA$ )	
				( $I_F=30mA$ )	
( $I_F=100mA$ )	0.90				
Diode capacitance ( $V_R=1V, f=1MHz$ )	$C_D$	-	-	8	pF