

BAS86

FEATURES :

- For general purpose applications.
- This diode features low turn-on voltage. This device is protected by a PN junction guard ring against excessive voltage, such as electrostatic discharges.
- Metal-on-silicon Schottky barrier device which is protected by a PN junction guard ring.
- The low forward voltage drop and fast switching make it ideal for protection of MOS devices, steering, biasing and coupling diodes for fast switching and low logic level applications
- This diode is also available in the DO-35 case with type designation BAT86.
- Pb / RoHS Free

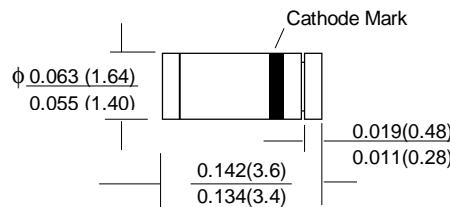
MECHANICAL DATA :

Case: MiniMELF Glass Case (SOD-80C)

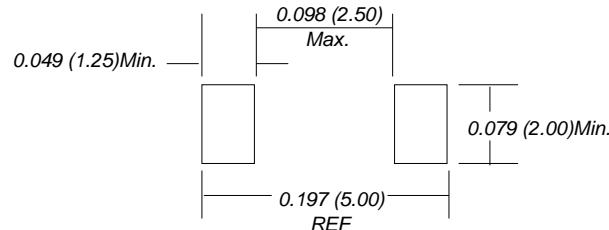
Weight: approx. 0.05g

SCHOTTKY BARRIER DIODE

MiniMELF (SOD-80C)



Mounting Pad Layout



Dimensions in inches and (millimeters)

Maximum Ratings and Thermal Characteristics

(Rating at 25 °C ambient temperature unless otherwise specified.)

Parameter	Symbol	Value	Unit
Continuous Reverse Voltage	V _R	50	V
Continuous Forward Current	I _F	200 ⁽¹⁾	mA
Repetitive Peak Forward Current at tp < 1s,	I _{FRM}	500 ⁽¹⁾	mA
Power Dissipation	P _D	200 ⁽¹⁾	mW
Thermal Resistance Junction to Ambient Air	R _{θJA}	300 ⁽¹⁾	°C/W
Junction Temperature	T _J	125	°C
Ambient Operating Temperature Range	T _a	-65 to + 125	°C
Storage temperature range	T _s	-65 to + 150	°C

Note: (1) Valid provided that electrodes are kept at ambient temperature.

Electrical Characteristics (T_J = 25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Breakdown Voltage	V _{(BR)R}	I _R = 10 μA (pulsed)	50	-	-	V
Reverse Current	I _R	V _R = 40 V	-	-	5.0	μA
Forward Voltage Pulse Test tp <300μs , δ <2%	V _F	I _F = 1mA	-	0.275	0.380	V
		I _F = 10mA	-	0.365	0.450	
		I _F = 30mA	-	0.460	0.600	
		I _F = 100mA	-	0.700	0.900	
Diode Capacitance	C _d	V _R = 1V, f = 1MHz	-	-	8	pF
Reverse Recovery Time	T _{rr}	I _F = 10mA to I _R = 10mA , measured at I _R = 1mA	-	-	5	ns