

BAS81-83

SMALL SIGNAL SCHOTTKY DIODE

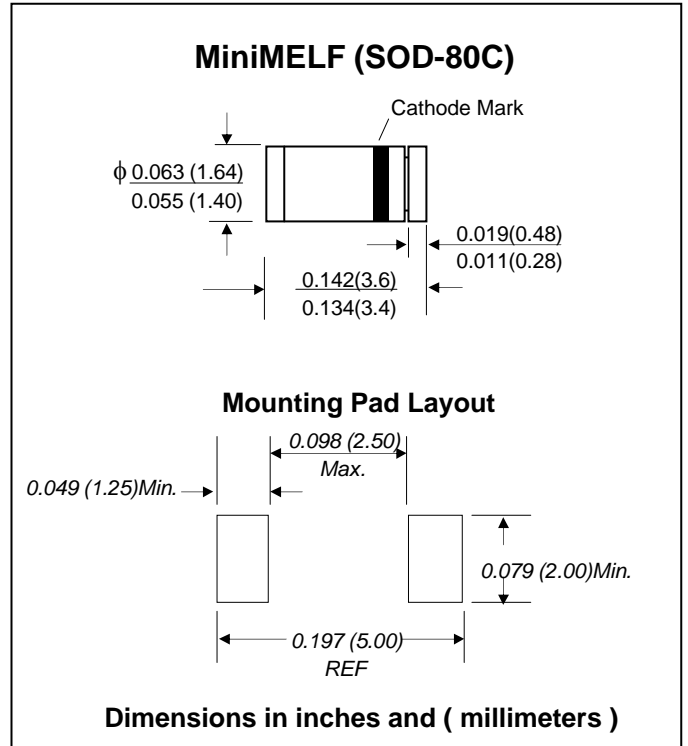
FEATURES :

- * Integrated protection ring against static discharge.
- * Low capacitance
- * Low leakage current
- * Low forward voltage drop
- * Low low switching time
- * **Pb / RoHS Free**

MECHANICAL DATA :

Case: MiniMELF Glass Case (SOD-80C)

Weight: approx. 0.05g



Maximum Ratings and Thermal Characteristics (Rating at 25 °C ambient temperature unless otherwise specified)

Parameter	Symbol	Value	Unit
Continuous Reverse Voltage	BAS81	40	V
	BAS82	50	
	BAS83	60	
Continuous Forward Current	I_F	30	mA
Repetitive Peak Forward Current	I_{FRM}	150	mA
Forward Surge Current at $t_p = 1$ s	I_{FSM}	500	mA
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	320 ⁽¹⁾	°C/W
Junction Temperature	T_J	125	°C
Storage temperature range	T_{STG}	-65 to + 150	°C

Note: (1) on PC board 50 mm x 50mm x 1.6mm.

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

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F = 0.1$ mA	-	-	0.33	V
		$I_F = 1.0$ mA	-	-	0.41	
		$I_F = 15$ mA	-	-	1.0	
Reverse Current	I_R	$V_R = V_{Rmax}$	-	-	200	nA
Diode Capacitance	Cd	$V_R = 1$ V, $f = 1$ MHz	-	-	1.6	pF