

BAS85

FEATURES :

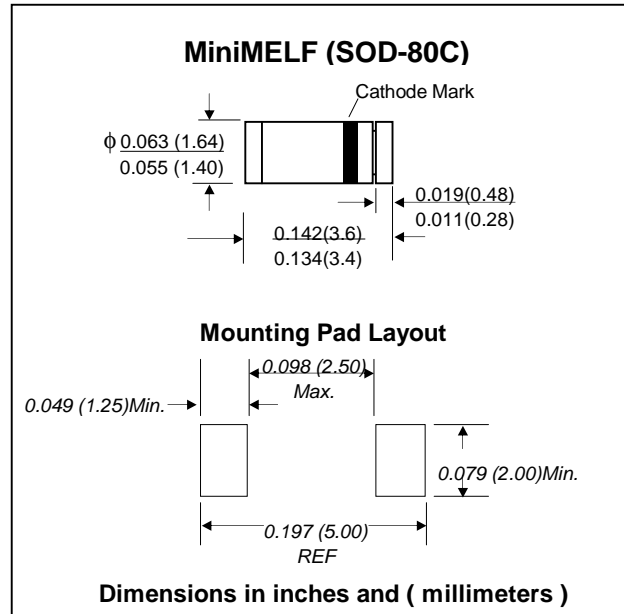
- * For general purpose applications.
- * This diode features low turn-on voltage.
- * This device is protected by a PN junction guard guard ring against excessive voltage, such as electrostatic discharges
- * This diode is also available in the DO-35 case with type designation BAT85.
- * **Pb / RoHS Free**

MECHANICAL DATA :

Case: MiniMELF Glass Case (SOD-80C)

Weight: approx. 0.05g

SCHOTTKY BARRIER DIODE



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

Parameter	Symbol	Value	Unit
Continuous Reverse Voltage	V_R	30	V
Continuous Forward Current	I_F	200 ⁽¹⁾	mA
Peak Forward Current	I_{FM}	300 ⁽¹⁾	mA
Forward Surge Current (tp < 1s)	I_{FSM}	600 ⁽¹⁾	mA
Power Dissipation (Infinite Heatsink)	P_D	200 ⁽¹⁾	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	430 ⁽¹⁾	°C/W
Junction Temperature	T_J	125	°C
Storage temperature range	T_{STG}	-55 to + 150	°C

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

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

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R = 10 \mu A$ (pulsed)	30	-	-	V
Reverse Current	I_R	$V_R = 25 V$	-	0.2	2.0	μA
Forward Voltage	V_F	$I_F = 1mA$	-	-	0.32	V
Pulse Test tp < 300 μs , δ < 2%		$I_F = 10mA$	-	-	0.40	
		$I_F = 30mA$	-	0.5	-	
		$I_F = 100mA$	-	-	0.80	
Diode Capacitance	C_d	$V_R = 1V, f = 1MHz$	-	-	10	pF
Reverse Recovery Time	T_{rr}	$I_F = 10mA$ to $I_R = 10mA$, measured at $I_R = 1mA$	-	-	5	ns

RATINGS AND CHARACTERISTIC CURVES (BAS85)

FIG.1 - MAXIMUM REVERSE POWER DISSIPATION VS. JUNCTION TEMPERATURE

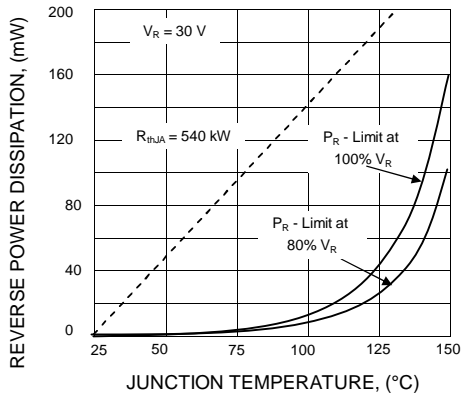


FIG.2 - DIODE CAPACITANCE VS. REVERSE VOLTAGE

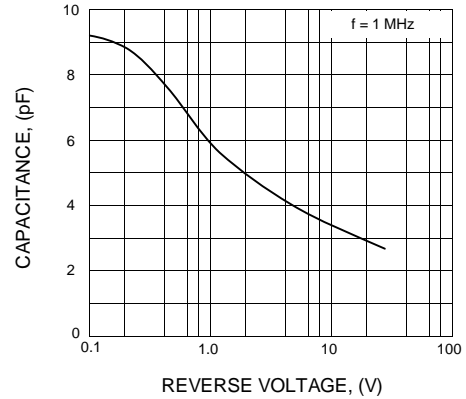


FIG.3 - FORWARD CURRENT VS. FORWARD VOLTAGE

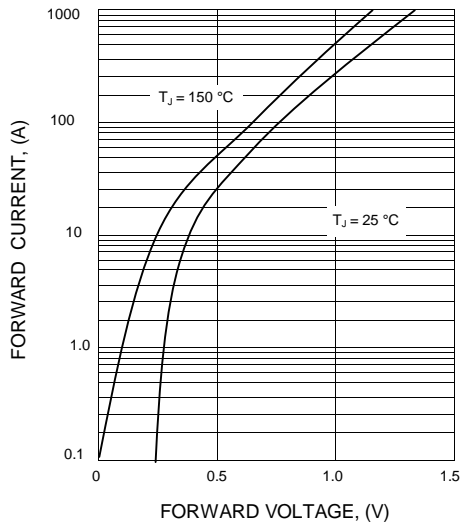


FIG.4 - REVERSE CURRENT VS. JUNCTION TEMPERATURE

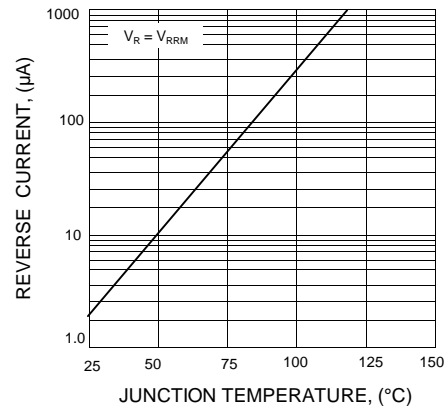
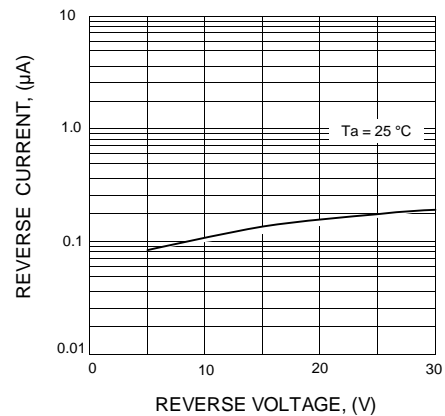


FIG.5 - REVERSE CURRENT VS. REVERSE VOLTAGE; TYPICAL VALUES



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Schottky Diodes & Rectifiers](#) category:

Click to view products by [EIC Semiconductor](#) manufacturer:

Other Similar products are found below :

[MA4E2039](#) [MMBD301M3T5G](#) [RB160M-50TR](#) [D83C](#) [BAS16E6433HTMA1](#) [BAS 3010S-02LRH E6327](#) [BAT 54-02LRH E6327](#)
[NRVBAF360T3G](#) [NSR05F40QNXT5G](#) [NTE555](#) [JANS1N6640](#) [SS3003CH-TL-E](#) [GA01SHT18](#) [CRS10I30A\(TE85L,QM](#) [MBRA140TRPBF](#)
[MBRB30H30CT-1G](#) [BAT 15-04R E6152](#) [JANTX1N5712-1](#) [DMJ3940-000](#) [SB007-03C-TB-E](#) [NRVBB20100CTT4G](#) [NRVBM120LT1G](#)
[NTSB30U100CT-1G](#) [CRG04\(T5L,TEMQ\)](#) [ACDBA1100LR-HF](#) [ACDBA1200-HF](#) [ACDBA240-HF](#) [ACDBA3100-HF](#) [CDBQC0530L-HF](#)
[ACDBA260LR-HF](#) [ACDBA1100-HF](#) [10BQ015-M3/5BT](#) [NRVBM120ET1G](#) [VSSB410S-M3/5BT](#) [1N5819T-G](#) [PDS1040Q-13](#) [B160BQ-13-F](#)
[SDM05U20CSP-7](#) [BAS 70-07 E6433](#) [B140S1F-7](#) [HSM560Je3/TR13](#) [DDB2265-000](#) [ZHCS506QTA](#) [HSM190Je3/TR13](#) [B330AF-13](#)
[ACDBUC0230-HF](#) [SDM1U100S1F-7](#) [MBR10200CTF-G1](#) [CDLL5712](#) [DMF2822-000](#)