

BAS85

SCHOTTKY BARRIERS SWITCHING DIODES

VOLTAGE 30 Volt **CURRENT** 0.2 Ampere

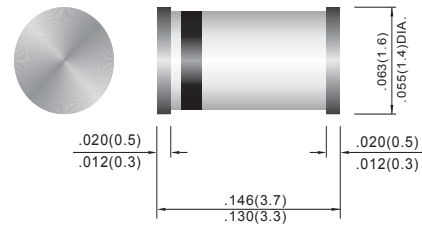
MINI-MELF/LL-34 Unit : inch (mm)

FEATURES

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Low Reverse Recovery Time
- Low Reverse Capacitance
- Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

- Case: Molded Glass MINI MELF
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: See Diagram Below
- Mounting Position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_J=25°C unless otherwise noted)

PARAMETER	SYMBOL	BAS85	UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	30	V
Continuous Reverse Voltage	V _R	30	V
Forward Continuous Current	I _F	200	mA
Peak Forward Current	I _{FM}	300	mA
Peak Forward Surge Current, t < 1s	I _{FSM}	600	mA
Power Dissipation Derate Above 25°C	P _D	200	mW
Maximum Forward Voltage I _F =0.1mA I _F =1mA I _F =10mA I _F =100mA	V _F	0.24 0.32 0.40 0.80	V
Maximum Reverse Current V _R =25V	I _R	2	μA
Typical Junction Capacitance (Note 1)	C _J	10	pF
Typical Reverse Recovery (Note 2)	t _{rr}	10	ns
Typical Thermal Resistance	R _{θJA}	430	°C / W
Storage Temperature Range	T _{STG}	-55 to +150	°C
Operating Junction Temperature Range	T _J	-55 to +125	°C

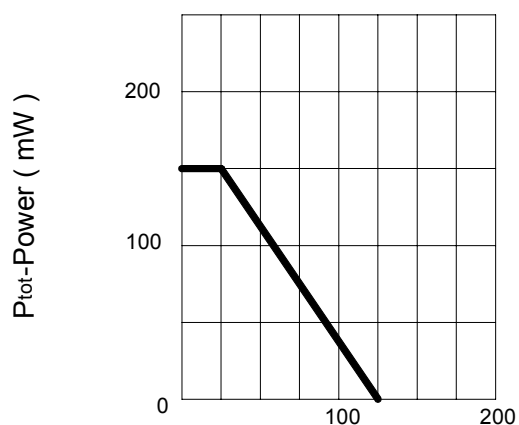
NOTE:

1. C_J at V_R=0, f=1MHZ
2. From I_F=50mA to I_R=200mA, R_L=100Ω

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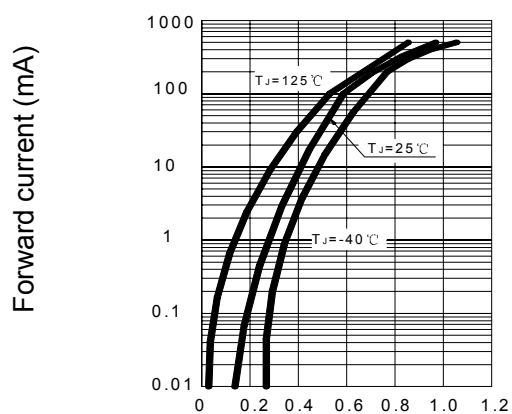
RATING AND CHARACTERISTIC CURVES

FIG.1 – ADMISSIBLE POWER DISSIPATION VS. AMBIENT TEMPERATURE



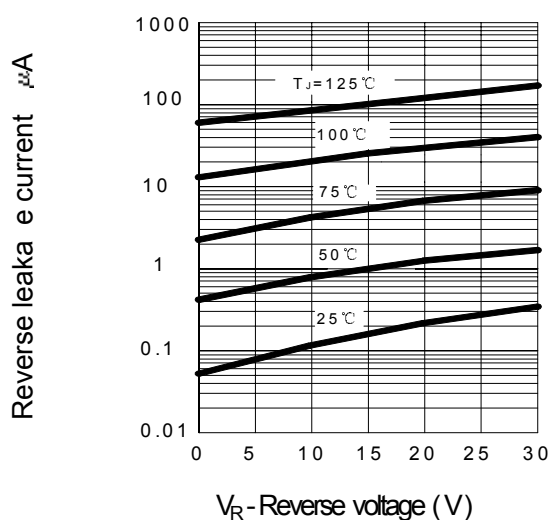
T_A - Ambient temperature (°C)

FIG. 2 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



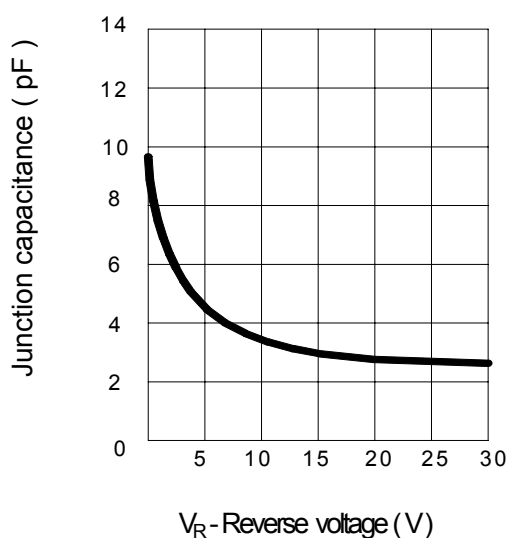
V_F - Forward Voltage (V)

FIG. 3 – TYPICAL REVERSE CHARACTERISTICS



V_R - Reverse voltage (V)

FIG.4 – TYPICAL JUNCTION CAPACITANCE



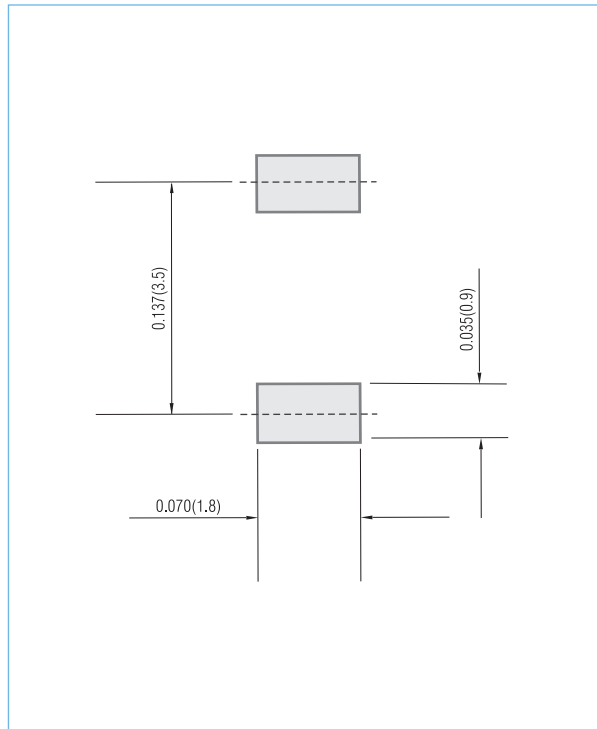
V_R - Reverse voltage (V)

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MOUNTING PAD LAYOUT

MINI-MELF

Unit: inch (mm)



ORDER INFORMATION

- Packing information
 - T/R - 10K per 13" plastic Reel
 - T/R - 2.5K per 7" plastic Reel

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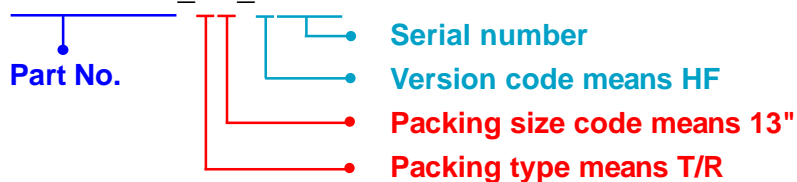
Part No_packing code_Version

BAS85_R1_10001

BAS85_R2_10001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			

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