

BAS48

SCHOTTKY BARRIERS SWITCHING DIODES

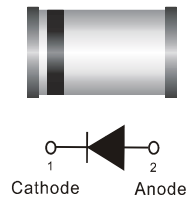
VOLTAGE 40 Volt **CURRENT** 0.35 Ampere

FEATURES

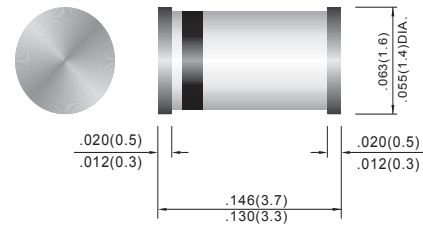
- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Low Reverse Recovery Time
- Low Reverse Capacitance
- Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

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



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



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

PARAMETER	SYMBOL	BAS48	UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	40	V
Forward Continuous Currentt	I _F	350	mA
Peak Forward Current,t≤1s	I _{FRM}	1	A
Peak Forward Surge Current , t ≤ 1ms	I _{FSM}	7.5	A
Power Dissipation Derate Above 25°C	P _D	330	mW
Maximum Forward Voltage I _F =0.1mA I _F = 1mA I _F = 10mA I _F = 50mA I _F = 200mA I _F = 500mA	V _F	0.25 0.30 0.40 0.50 0.75 0.90	V
Maximum Reverse Current V _R =10V V _R =20V V _R =40V	I _R	2 5 25	μA
Typical Junction Capacitance V _R =1V, f=1MHz	C _J	12	pF
Junction Ambient on PC board 50mm×50mm×1.6mm	R _{θJA}	300	°C / W
Storage Temperature Range	T _{STG}	-55 to +150	°C
Operating Junction Temperature Range	T _J	-55 to +125	°C

BAS48

RATING AND CHARACTERISTIC CURVES

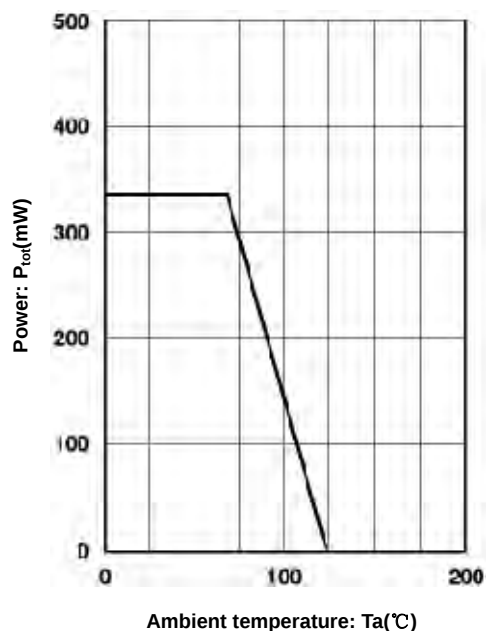


Figure 1. Admissible Power Dissipation vs. Ambient Temperature .

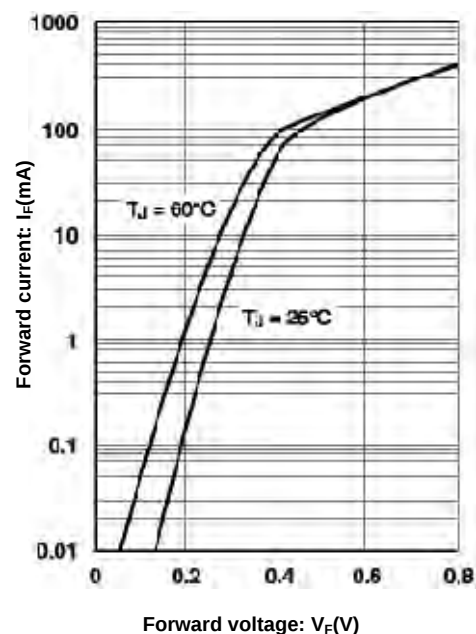


Figure 2. Forward Characteristics

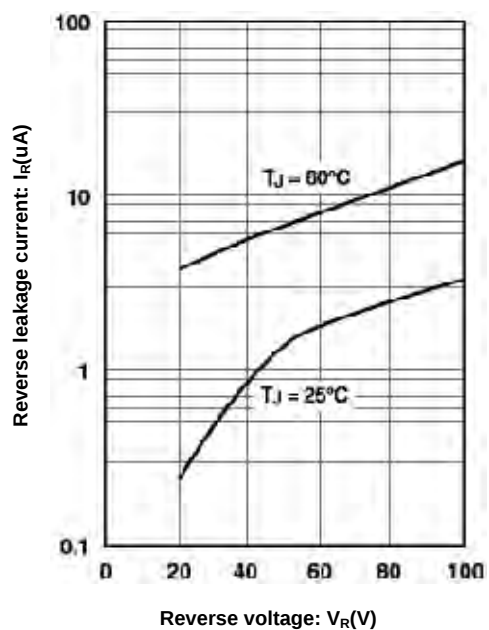


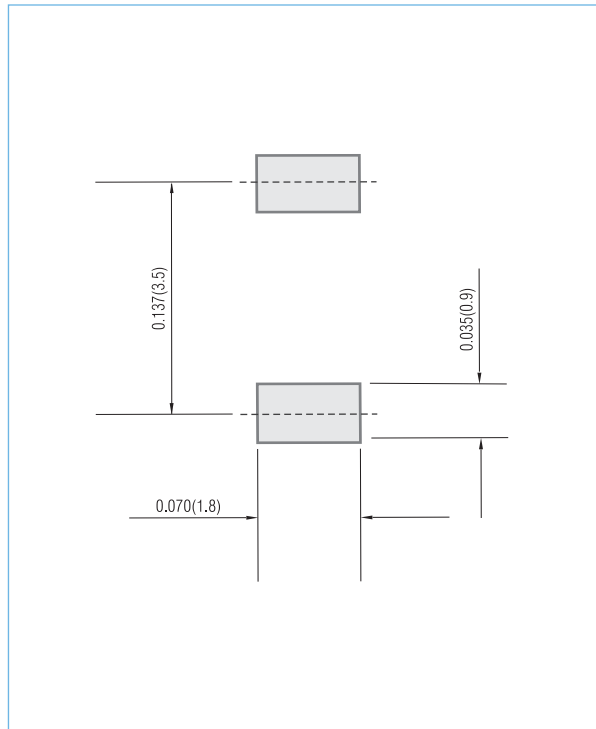
Figure 3. Typical Reverse Characteristics

BAS48

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

BAS48

Part No_packing code_Version

BAS48_R1_10001

BAS48_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			

BAS85

Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Siyang Grande Electronics Co., Ltd..
- Siyang Grande Electronics Co., Ltd. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Siyang Grande Electronics Co., Ltd. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Siyang Grande Electronics Co., Ltd. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Siyang Grande Electronics Co., Ltd. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Siyang Grande Electronics Co., Ltd. for any damages resulting from such improper use or sale.
- Since Grande uses lot number as the tracking base, please provide the lot number for tracking when complaining.