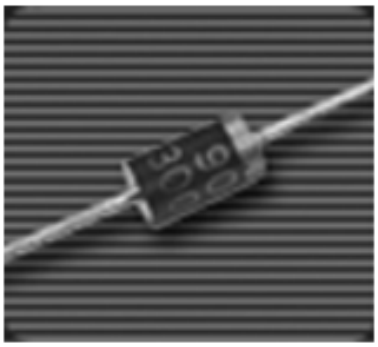
SB370 thru SB3B0.

Schottky Barrier Rectifiers

DO-27



Features

- Metal-Semiconductor junction with guardring
- Epitaxial construction
- Low forward voltage drop
- High current capability
- Moisture sensitivity: level 1, per J-STD-020
- AEC-Q101 qualified
- High temperature soldering guaranteed: 260℃/10 seconds
- Halogen-free according to IEC 61249-2-21 definition

Primary characteristics

$I_{F(AV)}$	3A
V_{RRM}	70V to 100V
I_{FSM}	100A
I_{RM}	0.5mA
V_{FM}at I_F=3A	0.79V
T_J max.	150 ºC

Applications

For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

Mechanical data

- DO-27
- Epoxy meets UL 94 V-0 flammability rating
- Terminals: Tin plated leads.
- Polarity: As marked.

Maximum rating (Ta=25ºCunless otherwise noted)

Parameter		Sym	DO-27				Unit
			SB370	SB380	SB390	SB3B0	
Max. repetitive peak reverse voltage		V_{RRM}	70	80	90	100	V
Max. RMS reverse voltage		V_{RMS}	49	56	63	70	V
Max. DC blocking voltage		V_{DC}	70	80	90	100	V
Max. average forward current		$I_{F(AV)}$	3				A
Non-repetitive peak forward surge current 8.3ms single half-sine-wave		I_{FSM}	100				A
Max. instantaneous forward voltage drop per diode		V_{FM}	0.79				V
Max. instantaneous reverse current at rated DC blocking voltage	Ta=25 ºC	I_{RM}	0.5				mA
	Ta=125 ºC		20				
Operating junction temperature		T_J	-55 ~ +150				ºC
Storage temperature		T_{STG}	-55 ~ +150				ºC
Typical thermal resistance (Note1)		$R_{\Theta J-L}$	25				ºC/W

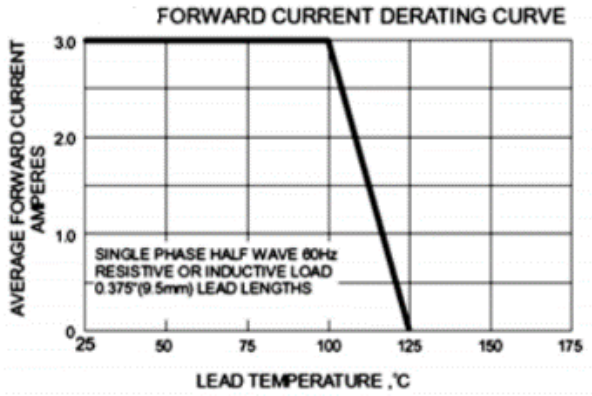
Notes:

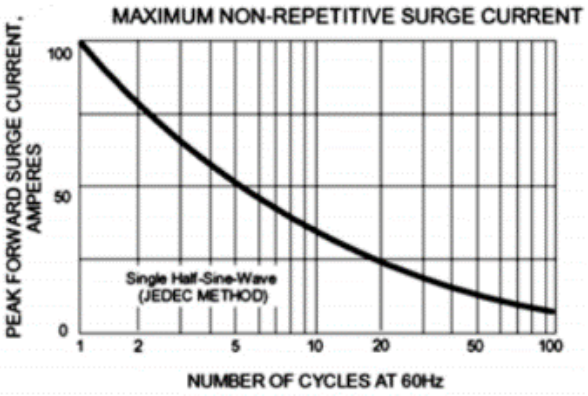
1 The thermal resistance from junction to lead

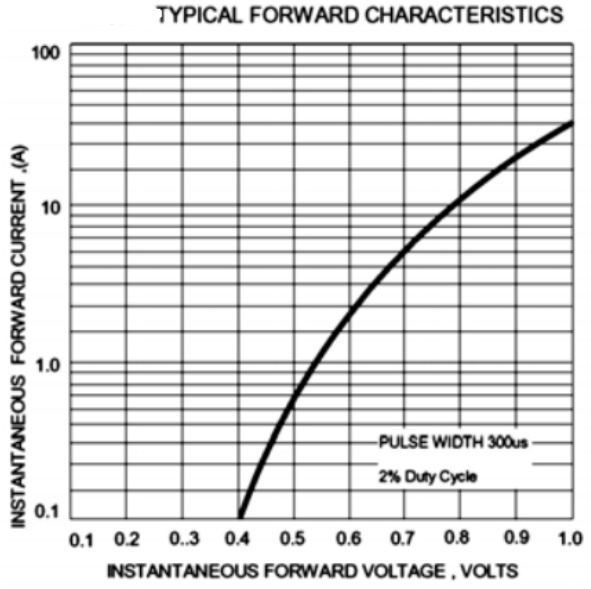
Orderinginformation (Example)

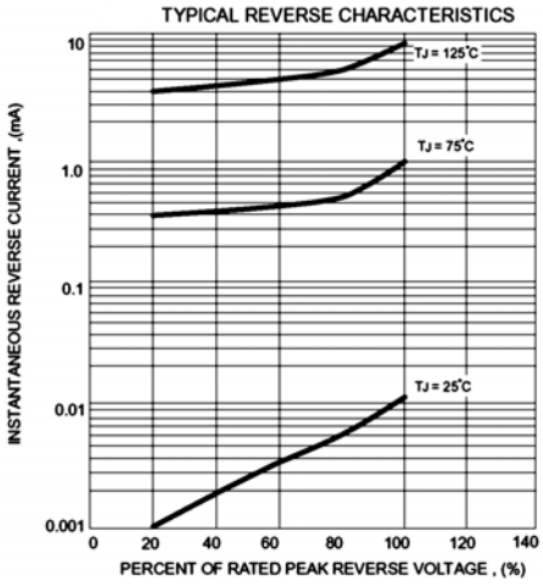
PREFERRED	UNITWEIGHT(g)	PREFERREDPACKAGECODE	BASEQUANTITY	DELIVERYMODE
SB370				

Typical characteristics



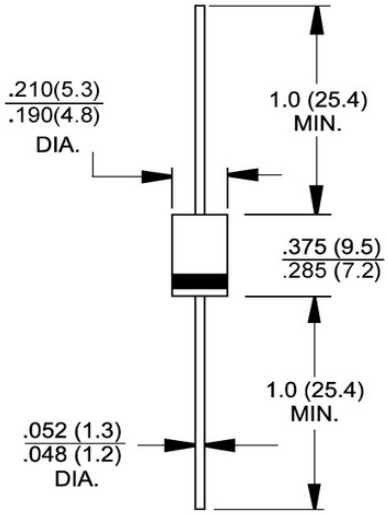






Package outline dimensions

DO-201AD



Dimensions in inches and (millimeters)

Gold SEMI Inc. - Legal Notice

Disclaimer – All data and specifications are subject to changes without notice

GOLD SEMI Inc, it's affiliates, agents, distributors and employees neither accept nor assume any responsibility for errors or inaccuracies. All data and specifications are intended for information and provide a product description only. Electrical and mechanical parameters listed in GOLD SEMI data sheets and specifications will vary dependent upon application and environmental conditions .GOLD SEMI is not liable for any damages occurred or resulting from any circuit, product or end-use application for which it's products are used. GOLD SEMI products are not intended or designed for use in life saving or sustaining apparatus and purchase of any GOLD SEMI products automatically indemnifies GOLD SEMI against any claims or damages resulting from application malfunction