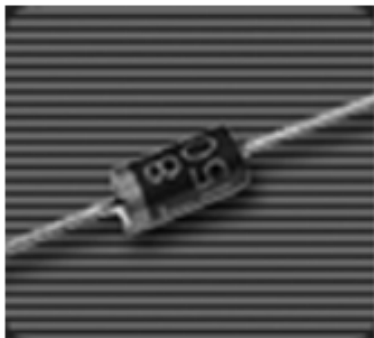


DO-15



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°C/10 seconds
- Halogen-free according to IEC 61249-2-21 definition



Primary characteristics

$I_{F(AV)}$	2A
V_{RRM}	70V to 100V
I_{FSM}	60A
I_{RM}	0.5mA
V_{FM} at $I_F=2A$	0.79V
T_J max.	150 °C

Applications

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

Mechanical data

- DO-15
- Epoxy meets UL 94 V-0 flammability rating
- Terminals: Tin plated leads.
- Polarity: As marked.

Maximum rating (Ta=25°C unless otherwise noted)

Parameter		Sym	DO-15				Unit
			SB270	SB280	SB290	SB2B0	
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)}	2				A
Non-repetitive peak forward surge current 8.3ms single half-sine-wave		I _{FSM}	60				A
Max. instantaneous forward voltage drop per diode		V _{FM}	0.79				V
Max. instantaneous reverse current at rated DC blocking voltage	Ta=25 °C	I _{RM}	0.5				mA
	Ta=125 °C		10				
Operating junction temperature		T _J	-55 ~ +150				°C
Storage temperature		T _{STG}	-55 ~ +150				°C
Typical thermal resistance (Note1)		R _{ΘJ-A}	20				°C/W

Notes:

1 The thermal resistance from junction to ambient

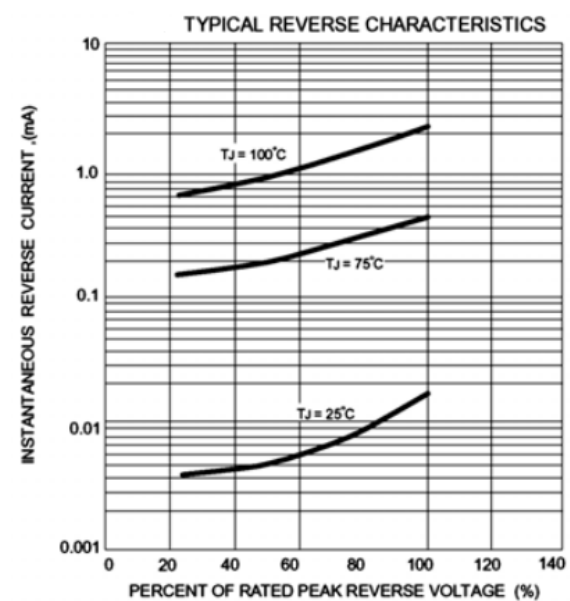
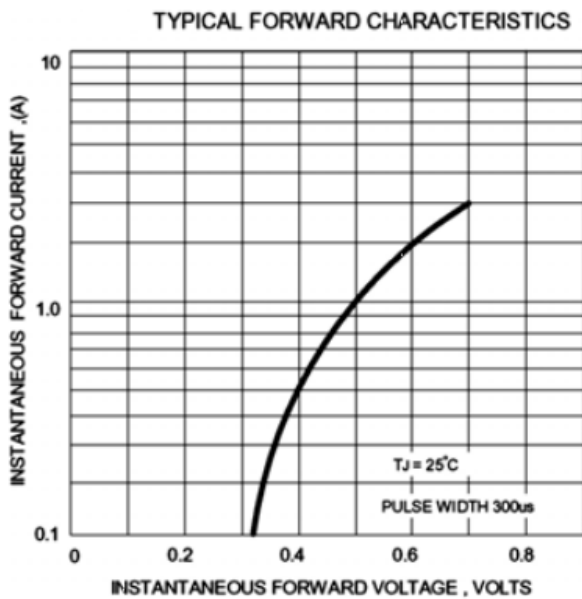
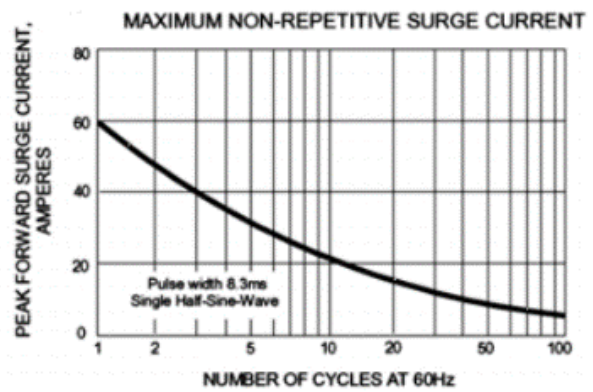
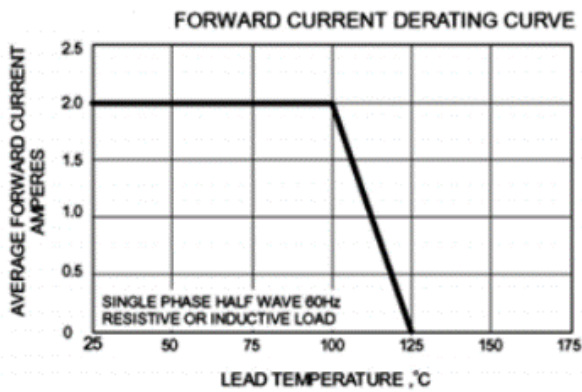


SB270 thru SB2B0. Schottky Barrier Rectifiers

Ordering information (Example)

PREFERRED	UNITWEIGHT(g)	PREFERREDPACKAGECODE	BASEQUANTITY	DELIVERYMODE
SB270				

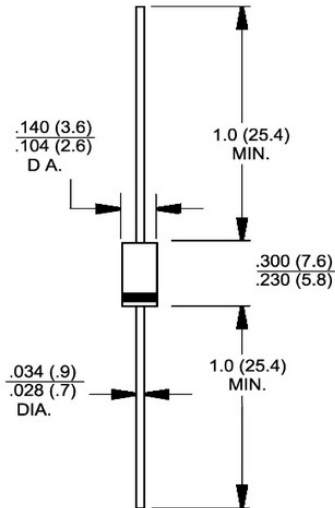
Typical characteristics





Package outline dimensions

DO-204AC (DO-15)



Dimensions in inches and (millimeters)

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