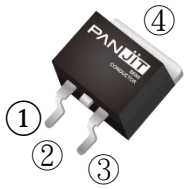
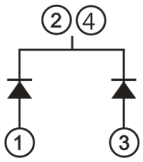
SB660CD

Surface Mount Schottky Barrier Rectifier

Voltage	60 V	Current	6 A

TO-252AA





Features

- Low power loss, high efficiency
- High surge current capability
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case : TO-252AA Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.3217 grams

Maximum Ratings and Thermal Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	60	V
Maximum RMS Voltage		V_{RMS}	42	V
Maximum DC Blocking Voltage		V_{DC}	60	V
Maximum Average Forward Current	per device per diode	$I_{F(AV)}$	6 3	A
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load Per Diode		I_{FSM}	80	A
Typical Junction Capacitance Measured at 1 MHZ And Applied V_R = 4 V		C_J	120	pF
Typical Thermal Resistance Per Diode	(Note 1) (Note 2) (Note 2)	$R_{\theta JA}$ $R_{\theta JC}$ $R_{\theta JL}$	50 9.3 8.6	℃/W
Operating Junction Temperature Range		T_J	-55~150	°C
Storage Temperature Range		T_{STG}	-55~150	°C

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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage Per Diode	V_F	I_F = 1 A, T_J = 25 °C	-	0.45	-	V
		I_F = 2 A, T_J = 25 °C	-	0.53	-	
		I_F = 3 A, T_J = 25 °C	-	0.62	0.68	
		I_F = 1 A, T_J = 125 °C	-	0.38	-	
		I_F = 2 A, T_J = 125 °C	-	0.48	-	
		I_F = 3 A, T_J = 125 °C	-	0.56	-	
Reverse Current	I_R	V_R = 48 V, T_J = 25 °C	-	4.8	-	uA
		V_R = 60 V, T_J = 25 °C	-	7.1	100	
		V_R = 60 V, T_J = 125 °C	-	5.5	-	mA

NOTES :

1. Mounted on a FR4 PCB, single-sided copper, standard footprint.
2. Mounted on a FR4 PCB, single-sided copper, with 100 cm^2 copper pad area.

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TYPICAL CHARACTERISTIC CURVES

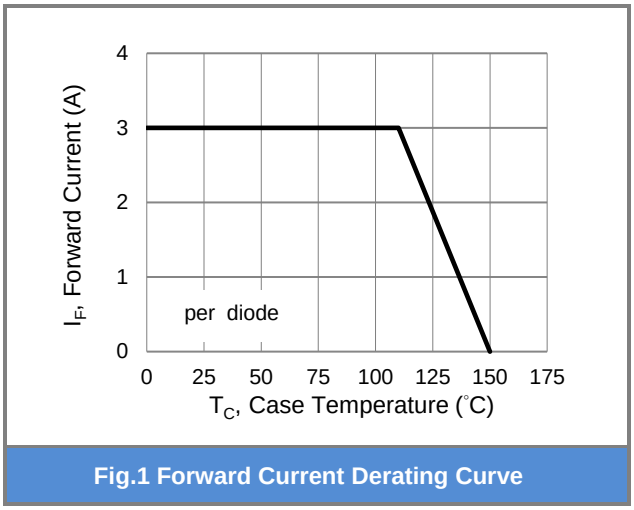

Fig.1 Forward Current Derating Curve

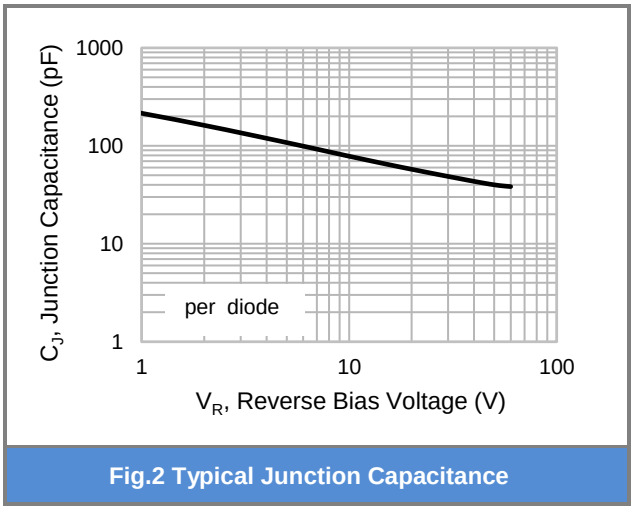

Fig.2 Typical Junction Capacitance

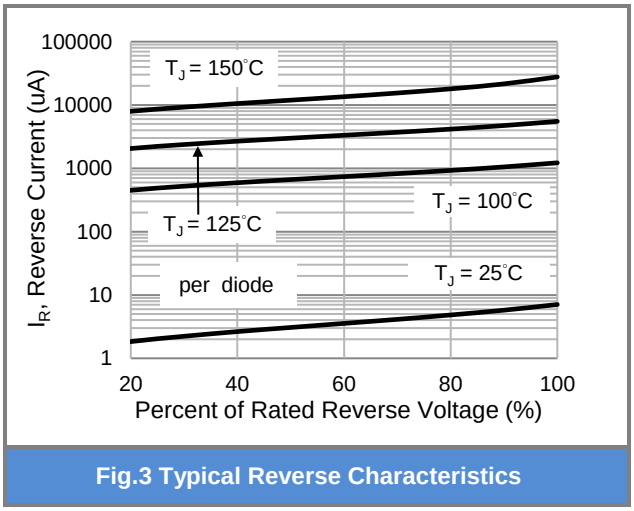

Fig.3 Typical Reverse Characteristics

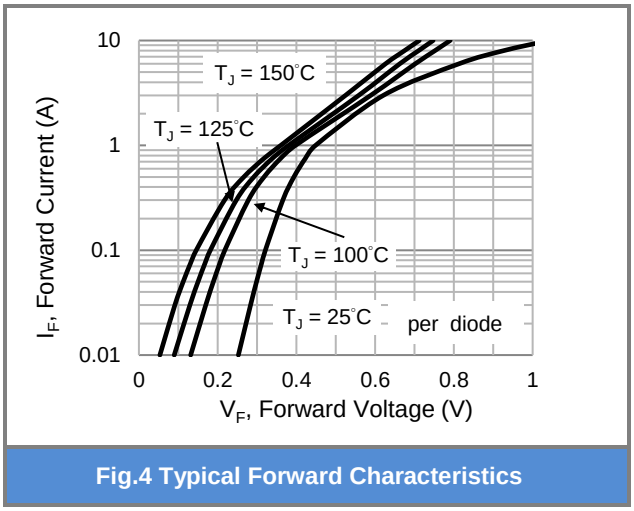

Fig.4 Typical Forward Characteristics

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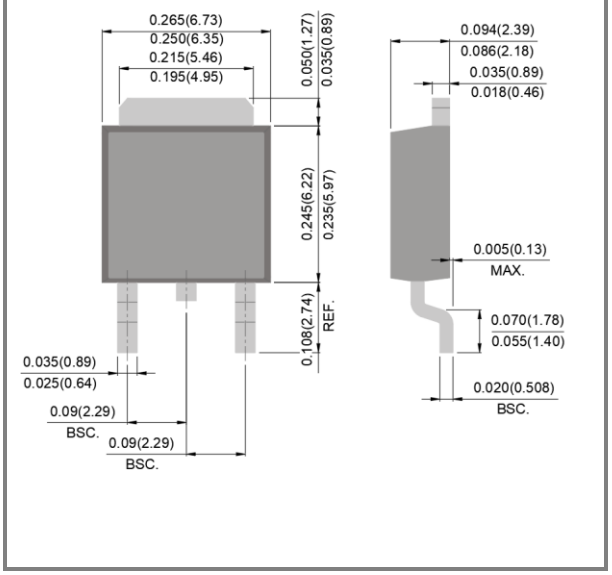
Product and Packing Information

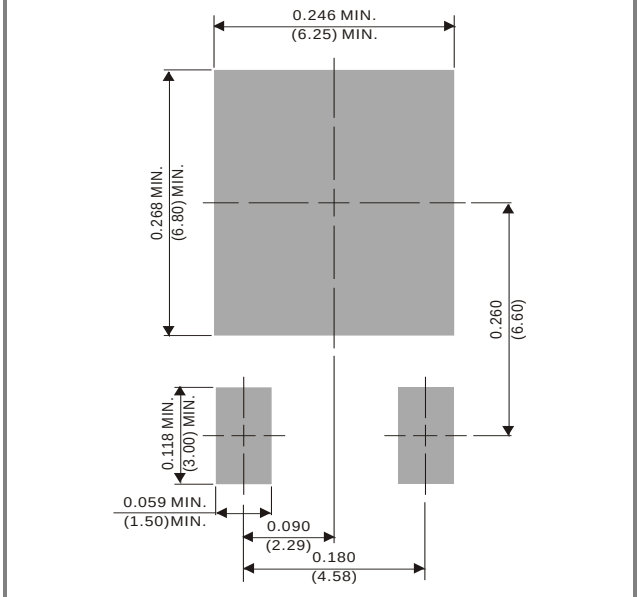
Part No.	Package Type	Packing Type	Marking
SB660CD	TO-252AA	3K pcs / 13” reel	SB660CD

Packaging Information & Mounting Pad Layout

TO-252AA Dimension — Unit: inch(mm)



TO-252AA Pad Layout — Unit: inch(mm)



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