

ULTRA LOW VF SCHOTTKY BARRIER RECTIFIER

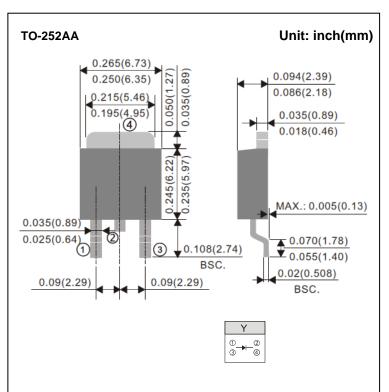
Voltage 100 V Current 20 A

Features

- Ideal for automated placement
- Ultra low forward voltage drop, low power loss
- High efficiency operation
- Low thermal resistance
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case: TO-252AA Molded Plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Weight: 0.0105 ounces, 0.297 grams



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

PARAMETER	SYMBOL	VALUE	UNIT	
Maximum repetitive peak reverse voltage	V _{RRM}	100	V	
Maximum rms voltage	V _{RMS}	70	V	
Maximum dc blocking voltage	V _R	100	V	
Maximum average forward rectified current	I _{F(AV)}	20	А	
Peak forward surge current : 8.3ms single half sine- wave Superimposed on rated load	I _{FSM}	250	А	
Typical thermal resistance (Note 1)	R _{eJC}	6	°C/W	
Operating junction temperature range	TJ	-55 to +150	°C	
Storage temperature range	T _{STG}	-55 to +150	°C	

Electrical Characteristics

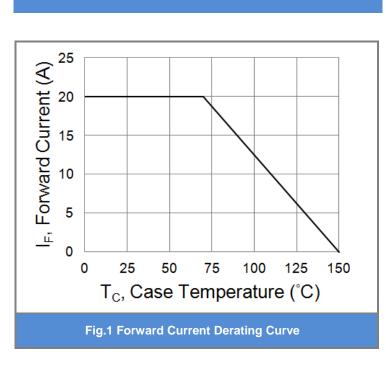
PARAMETER	SYMBOL	TEST CONDITION		TYP.	MAX.	UNIT
Forward voltage	V _F	I _F =5A	TJ=25°C	0.48	-	
		I _F =10A		0.57	-	V
		I _F =20A		-	0.78	
		I _F =5A	TJ=125°C	0.41	-	V
		I _F =10A		0.53	-	
Reverse current (Note 2)	I _R	V _R =70V	TJ=25°C	5	-	μA
		V _R =100V	TJ=25°C	-	120	μA
			TJ=125°C	12	-	mA

NOTE :1. Mounted on 10cm * 10cm * 0.5mm copper pad area.

2.Short duration pulse test used to minimize self-heating effect.







TYPICAL CHARACTERISTIC CURVES

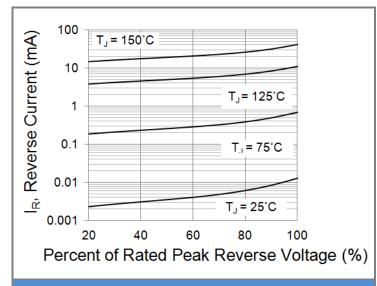
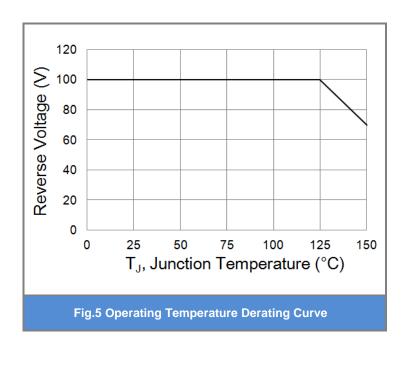
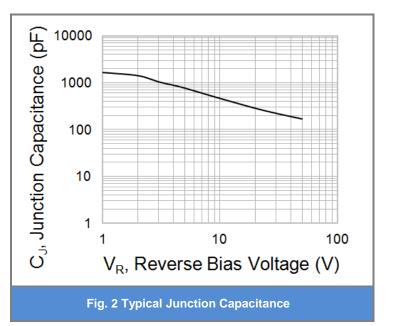
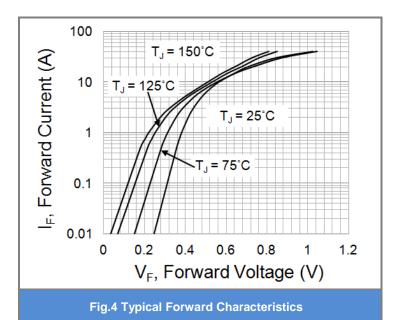


Fig.3 Typical Reverse Characteristics





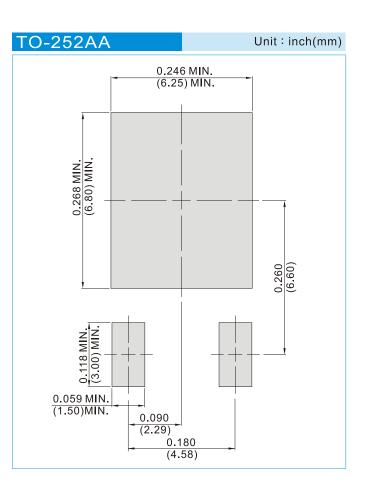




Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SBT20100VYD_L2_00001	TO-252AA	3,000pcs / 13" reel	T20100VY	Halogen free

Mounting Pad Layout







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