



SURFACE MOUNT DUAL ISOLATED OPPOSING SILICON SCHOTTKY DIODES

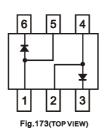
VOLTAGE 100 Volt

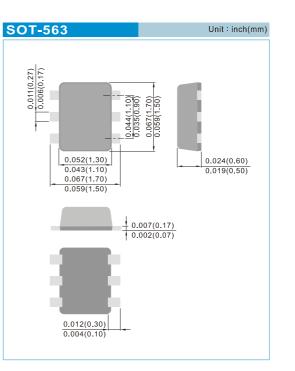
FEATURES

- Smallest 100V Dual, isolated Schottky diode currently available
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOT-563, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Apporx. Weight: 0.0001 ounces, 0.0026 grams
- Marking: BW





ABSOLUTE MAXIMUM RATINGS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNITS
Maximum Recurrent 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)}	0.4	A
Maximum Forward Rectified Current @ t=10s	I _{F(AV)}	0.5	A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	5.5	A
Peak Forward Surge Current : 10ms single half sine-wave superimposed on rated load	I _{fsm}	5	А
Typical Junction Capacitance (V _R =4V, f=1MHz)	C	21	pF
Typical Thermal Resistance, Junction to Ambient (Note 1)	R _{eja}	480	°C/W
Operating Junction Temperature and Storage Temperature Range	T _J ,T _{stg}	-55 to +150	°C

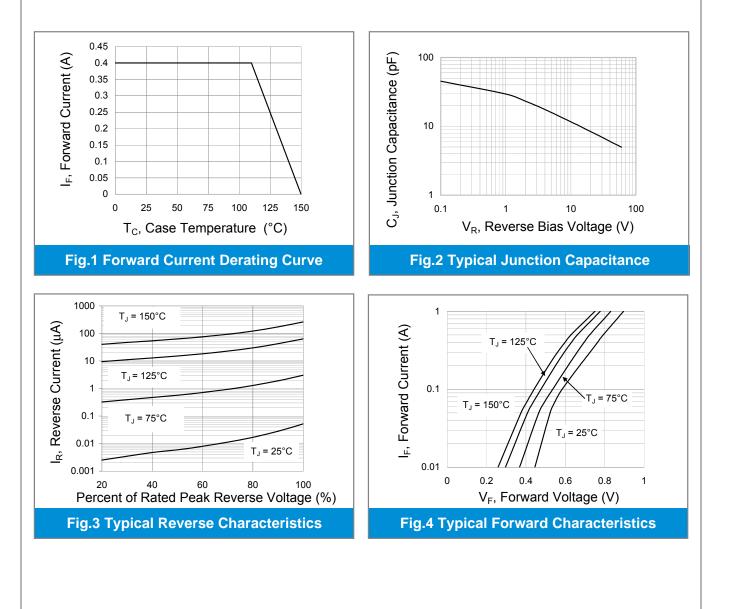
NOTE : 1. Mounted on an FR4 PCB, single-sided copper, mini pad.



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ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

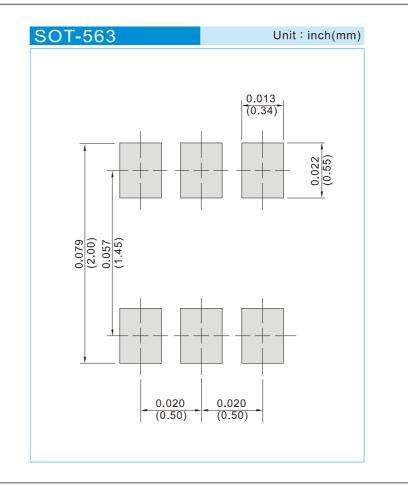
PARAMETER	SYMBOL	Test Condition		MIN.	TYP.	MAX.	UNITS
Breakdown Voltage	Vbr	I R=200μA	TJ=25°C	100	-	-	V
Instantaneous Forward Voltage	VF	I ғ=0.4А I ғ=0.5А	TJ=25°C TJ=25°C	-	0.76 0.8	0.81 0.85	V
		I F=0.4A I F=0.5A	Tյ=125°C Tj=125°C	-	0.63 0.66	-	V
Reverse Current	l r	VR=80 V	TJ=25°C	-	20	-	nA
		V _R =100 V	Tյ=25°C Tյ=125°C	-	- 65	1 -	μA





BAS100ATB6

MOUNTING PAD LAYOUT



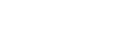
ORDER INFORMATION

Packing information

T/R - 4K per 7" plastic Reel

T/R - 10K per 13" plastic Reel





BAS100ATB6

Part No_packing code_Version

BAS100ATB6_R1_00001 BAS100ATB6_R2_00001

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)	Α	N/A	0	HF	0	serial number		
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number		
Bulk Packing (B/P)	В	13"	2					
Tube Packing (T/P)	т	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					





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