



SURFACE MOUNT SCHOTTKY DIODES ARRAYS

These devices feature electrically-isolated Schottky diodes connected in varios configurations housed in a very small SOT-363

FEATURES

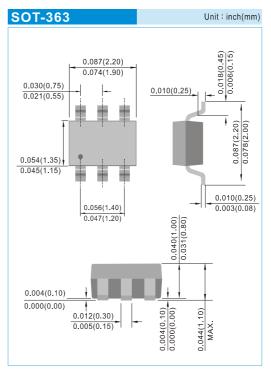
- Maximum forward voltage @ 1mA of 0.41V
- Maximum leakage current @ 50V of 100nA
- · Reverse voltage rating of 70V
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- · Case: SOT-363, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx weight: 0.0002 ounces, 0.006 grams
- Marking: BAS70TW: A70, BAS70ADW:A72, BAS70CDW: A73, BAS70SDW:A74



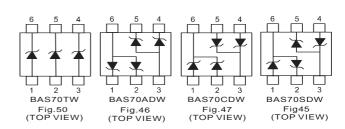
- · Rail-to rail ESD protection
- · Overshoot and undershoot switching control
- · Mobile phones and accessories
- Video fame consoles connector ports



MAXIMUM RATING (Per Diode) T_{.i}=25°C Unless otherwise noted

Parameter	Symbol	Value	Units
Repetitve Peak Reverse Voltage	VRRM	70	V
Continuous Reverse Voltage	VR	70	V
Continuous Forward Current	lF	200	mA
Non-repetitive Peak Forward Surge Current, t=1s, Square Wave	IFSM	0.6	А
Total Power Dissipation (Note 1)	Ртот	225	mW
Thermal Resistance, Junction to Ambient	Rөja	556	°C/W
Operating Junction Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	Тѕтс	-55 to +125	°C

Note: 1.FR-5 Board 1 x 0.75 x 0.062 in.



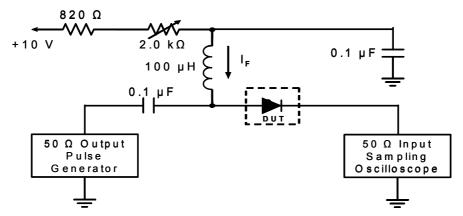




ELECTRICAL CHARACTERISTICS (Per Diode) T,=25°C Unless otherwise noted

Parameter	Symbol	Test Condition	Min.	Тур.	Max.	Units
Breakdown Voltage (Note 2)	V _{BR}	I BR=100μA	70			V
Forward Voltage (Note 2)	Vf	F=1mA F=10mA F=15mA		-	0.41 0.75 1	V
Reverse Leakage Current (Note 2)	IR	V _R =50 V		-	100	nA
Junction Capacitance	Ср	VR=0V, f=1MHz		1.25	2	pF
Reverse Recovery Time (See Figure 1)	Trr	I F=10mA,I R=10mA RL=100Ω measured at I Rrec=1mA		1	5	ns

Note : 1.Short duration (< $300\mu s$) test pulse to minmize self heating



Notes: 1. A $2.0k\Omega$ variable resistor adjusted for a forward current (I_F) to 10mA 2. Input pulse is adjusted to I_{R(peak)} is equal to 10mA

Figure 1. REVERSE RECOVERY TIME EQUIVALENT TEST CIRCUIT





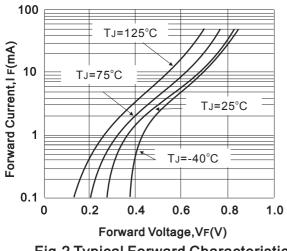


Fig.2 Typical Forward Characteristics

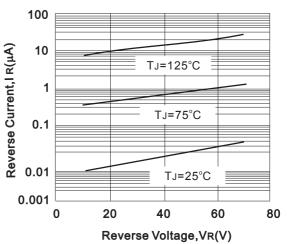


Fig.3 Typical Reverse Characteristics

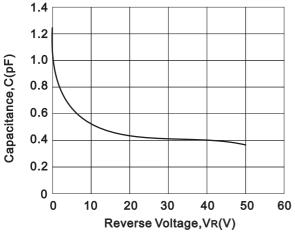


Fig.4 Typical Reverse Characteristics

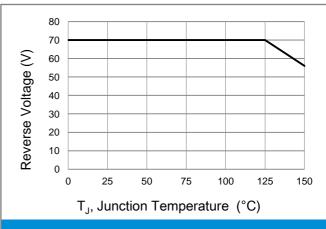
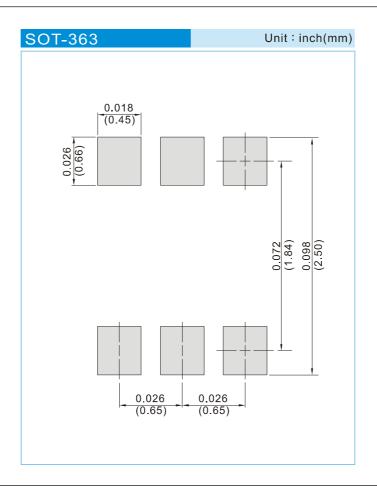


Fig.5 Operating Temperature Derating Curve





MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel





Part No_packing code_Version

BAS70TW_R1_00001 BAS70TW_R2_00001

For example:



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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