



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 comply with EU RoHS 2011/65/EU directives
- 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: 0.00018 ounces, 0.005 grams

Marking: BAS70TW: A70, BAS70ADW: A72, BAS70CDW: A73,

BAS70SDW:A74

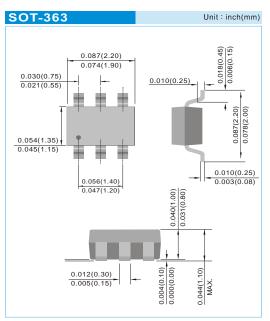
APPLICATOINS

Rail-to rail ESD protection

Overshoot and undershoot switching control

Mobile phones and accessories

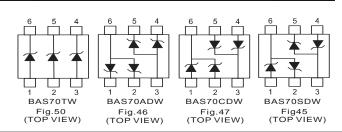
Video fame consoles connector ports



MAXIMUM RATING (Per Diode) T_.=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	Α
Total Power Dissipation (Note 1)	Ртот	225	mW
Thermal Resistance, Junction to Ambient	Roja	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.



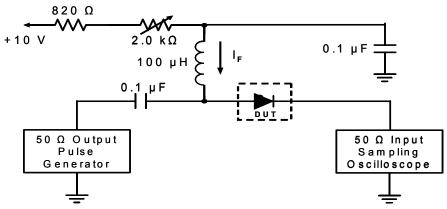




ELECTRICAL CHARACTERISTICS (Per Diode) T,=25°C Unless otherwise noted

Parameter	Symbol	Test Condition	Min.	Тур.	Max.	Units
Breakdown Voltage (Note 2)	VBR	I BR=100μA	70			V
Forward Voltage (Note 2)	VF	I F=1mA I F=10mA I F=15mA			0.41 0.75 1	V
Reverse Leakage Current (Note 2)	l R	Vr=50 V			100	nA
Junction Capacitance	Съ	V _R =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			5	ns

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



Notes: 1. A $2.0 k\Omega$ 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





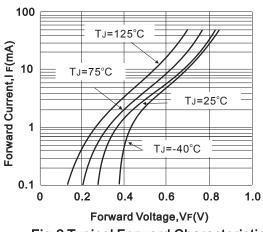


Fig.2 Typical Forward Characteristics

Fig.3 Typical Reverse Characteristics

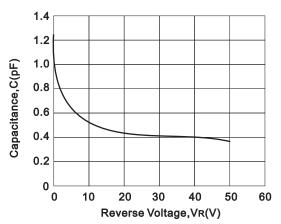
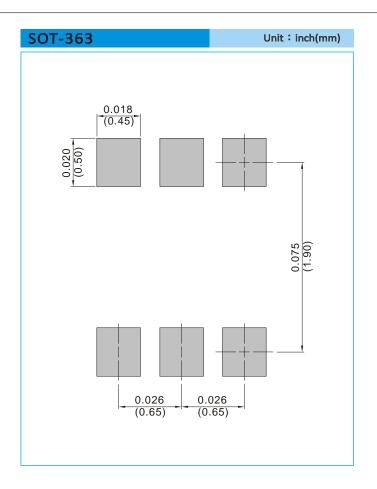


Fig.4 Typical Reverse Characteristics





MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 10K per 13" plastic Reel

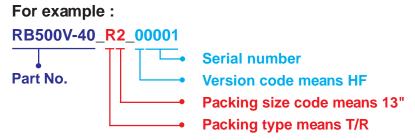
T/R - 3K per 7" plastic Reel





Part No_packing code_Version

BAS70TW_R1_00001 BAS70TW_R2_00001



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	Х				
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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