BAS40TW/ADW/CDW/SDW



SOT- 363

Various

Configurations (See Diagrams

Below)

4

5

6

SURFACE MOUNT SCHOTTKY DIODE ARRAYS

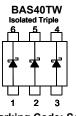
These devices feature electrically-isolated Schottky diodes connected in various configurations housed in a very small SOT-363 (SC70-6L)

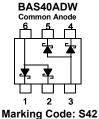
FEATURES

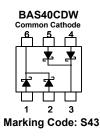
- Maximum forward voltage @ 10mA of 0.5V
- Maximum leakage current @ 25V of 1.0uA
- Reverse voltage rating of 40V
- Lead free in compliance with EU RoHS 2011/65/EU directive
- •`; fYYb'a c`X]b['Wca dci bX'Ug'dYf'=97*%&(- 'GhX"""fkUc[Yb': fYYŁ

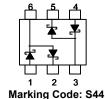
APPLICATIONS

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









BAS40SDW

Marking Code: S40

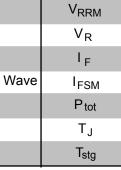
MAXIMUM RATINGS (Per Diode) T₁ = 25°C Unless otherwise noted

Rating	Symbol	Value	Units
Repetitive Peak Reverse Voltage	V _{RRM}	40	V
Continuous Reverse Voltage	V _R	40	V
Continuous Forward Current	۱ _۴	200	mA
Non-repetitive Peak Forward Current, t = 1sec, Square Wave	I _{FSM}	600	mA
Total Power Dissipation (Note 1)	P _{tot}	225	mW
Operating Junction Temperature Range	Τ _J	-55 to 125	°C
Storage Temperature Range	T _{stg}	-65 to 125	°C

Note 1. FR-5 Board 1.0 x 0.75 x 0.062 in.

THERMAL CHARACTERISTICS

Characteristic	Symbol	Value	Units
Thermal Resistance, Junction to Ambient	R _{thetaJA}	556	°C/W

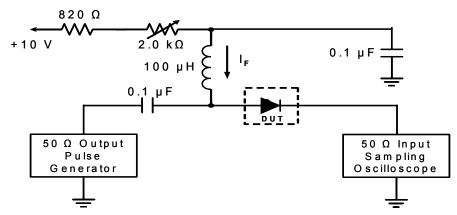




ELECTRICAL CHARACTERISTICS (Per Diode) Tj = 25°C Unless otherwise noted

Parameter	Symbol	Conditions	Min	Тур	Max	Units
Breakdown Voltage (Note 1)	V _{BR}	I _{BR} = 10uA	40	-	-	V
		I _F = 1.0mA	-	-	380	
Forward Voltage (Note 1)	V _F	I _F = 10mA	-	-	500	mV
		I _F = 40mA	-	-	1000	
Reverse Leakage Current (Note 1)	۱ _R	V _R = 25V	-	-	1.0	uA
Total Capacitance	Ст	0Vdc Bias, f =1 MHz	-	-	5.0	pF
Reverse Recovery Time (See Figure 1)	t _{rr}	I _F = 10mA, I _R = 10mA R _L = 100 Ohms; measured at I _{Rrec} = 1mA	-	-	5.0	ns

Note 1. Short duration pulse to minimize self-heating effect

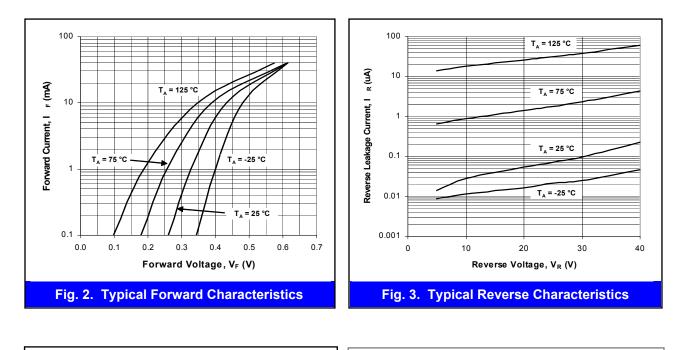


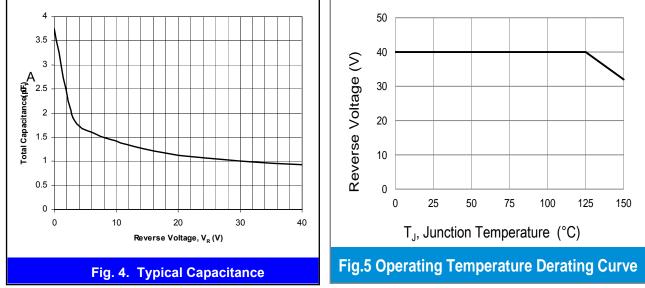
Notes: 1. A 2.0k Ω variable resistor adjusted for a forward current (I_F) to 10mA 2. Input pulse is adjusted to I_{R(peak)} is equal to 10mA

Figure 1. REVERSE RECOVERY TIME EQUIVALENT TEST CIRCUIT



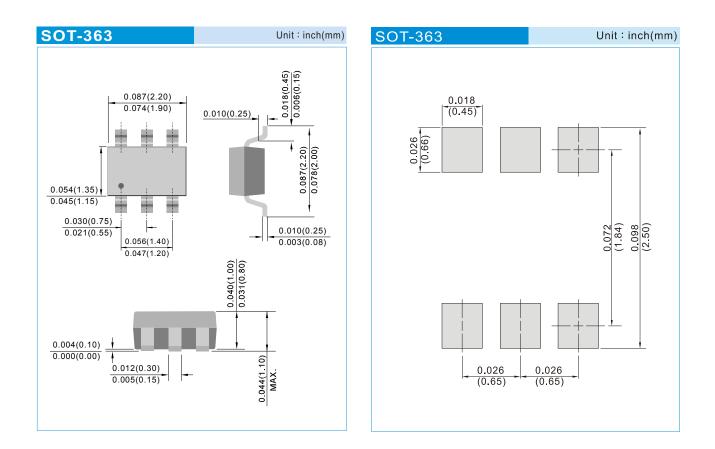








PACKAGE LAYOUT AND SUGGESTED PAD DIMENSIONS



ORDERING INFORMATION

BAS40xxx T/R7 - 7" reel, 3K units per reel

BAS40xxx T/R13 - 13" reel, 10K units per reel



BAS40TW/ADW/CDW/SDW

Part No_packing code_Version BAS40TW_R1_00001 BAS40TW_R2_00001

For example :

RB500V-40_R2_00001



• Serial number

--- Version code means HF

Packing size code means 13"

-• Packing type means T/R

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)	A	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				



BAS40TW/ADW/CDW/SDW

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