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Micro Commercial Components (MCC) BAS40-04-TP

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



Distributor of Micro Commercial Components (MCC) : Excellent Integrated System Limite Datasheet of BAS40-04-TP - DIODE ARRAY SCHOTTKY 40V SOT23 Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

BAS40 THRU BAS70

Surface Mount

Schottky Barrier Diode

Features

- SOT-23 Package For surface mount application
- Protects from line to V_{CC} and line to ground
- Low forward voltage and reverse recovery characteristics
- Bidirectional-low-forward available with "-04" suffix (Figure 2)
- Tape & Reel EIA Standard 481.

Mechanical Data

- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"
- Mounting Position: Any
- Weight: .008 grams (approx.)

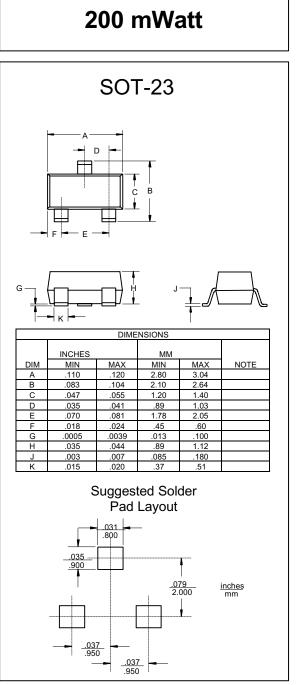
MAXIMUM RATINGS

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- Power Dissipation: 200 mWatts @ T_{amb}=25°C
- Forward Continuous Current: $\begin{array}{ll} BAS40 \ I_F &= 200 mA @ T_a = 25^{\circ}C \\ BAS70 \ I_F &= 70 mA @ T_a = 25^{\circ}C \end{array}$
- Surge Forward Current: BAS40 IFSM=600mA @ tp<1s, Tamb=25°C
- Surge Forward Current: BAS70 IFSM=100mA @ tp<1s, Tamb=25°C

DESCRIPTION

Various configurations of Schottky barrier's diodes in SOT-23 package are provided for general-purpose use in high-speed switching ,mixers and detector applications. They may also be used for signal integrity and counteract the transmission-line effects with (PC) board trances by clamping over/and undershoot from signal reflections with the schottky-low-threshold voltages.

This type of termination also does not depend on matching the transmission line characteristic impedance, making it particularly useful where line impendance is unknown or a variable. This methode of termination can control distortions of clock, data, address, and control lines as well as provides a stabilizing effect on signal jitter. It can also significantly reduce power consumption compared to standard resistor-based termination methods.





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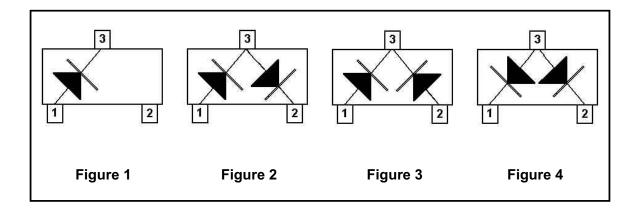


Micro Commercial Components

BAS40 and BAS70

ELECTRICAL CHARACTERISTICS PER DIODE @ 25^oC Unless otherwise specified

DEVICE TYPE	DEVICE MARKING	FIGURE	Repetitive Peak Reverse Voltage	Reverse Breakdown Voltage Tested with 10µA Pulse	Leakage Current Pulse test tp < 300 μ s @ For BAS40 V _R = 30 V For BAS70 V _R = 50 V I _R (nA)		Forward Voltage Pulse Test tp < 300µs at I _F = 1 mA at I _F = 40 mA V_F (mV)			Reverse Recovery Time from $I_F = 10 \text{ mA}$ through $I_R = 10 \text{ mA}$ to	Thermal Resistance Junction to Ambient Air	$\begin{array}{c} Capacitance \\ At \ V_R = 0V \\ F = 1 \ MHz \\ C_{tot} \end{array}$
			V _{RRM} (VOLTS)	V _{(BR)R} (VOLTS)						I _R =1mA t _{rr} (ns)	R _{thJA} (K/W)	pF
			TYP	MIN	TYP	MAX	I _F =1mA	I _F =15mA	I _F =40mA	MAX	MAX	MAX
BAS40	43	1	40	40	10	200	380		1000	5	430	5
BAS40-04	44	2	40	40	10	200	380		1000	5	430	5
BAS40-05	45	3	40	40	10	200	380		1000	5	430	5
BAS40-06	46	4	40	40	10	200	380		1000	5	430	5
BAS70	73	1	70	70	10	200	410	1000		5	430	2
BAS70-04	74	2	70	70	10	200	410	1000		5	430	2
BAS70-05	75	3	70	70	10	200	410	1000		5	430	2
BAS70-06	76	4	70	70	10	200	410	1000		5	430	2







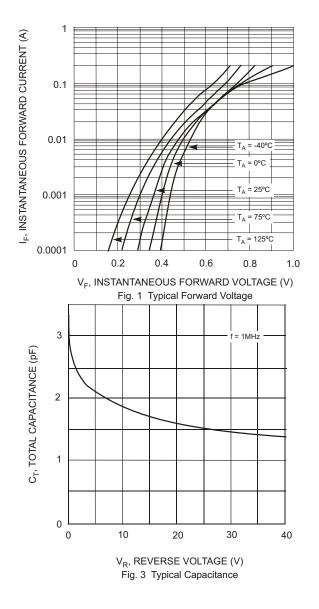
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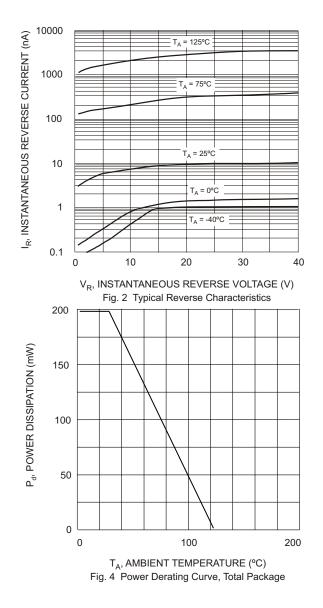


BAS40 and BAS70

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Typical Characteristics





- www.mccsemi.com





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Ordering Information :

Device	Packing				
Part Number-TP	Tape&Reel: 3Kpcs/Reel				

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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