

SURFACE MOUNT SCHOTTKY BARRIER DIODE

FEATURES

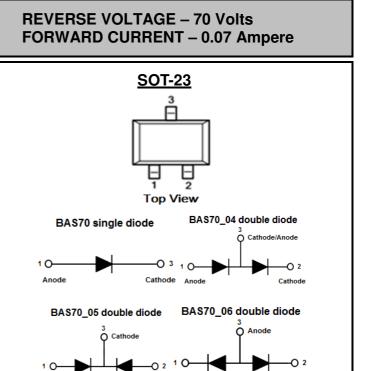
- · Low forward current
- · High breakdown voltage
- Guard ring protected
- · Low diode capacitance

MECHANICAL DATA

- Case: SOT-23 plastic
- Lead free in RoHS 2002/95/EC compliant

APPLICATION

- Ultra high-speed switching
- Voltage clamping
- Protection circuits



Cathode

Anode

Cathode

BAS70, BAS70-04 thru 06

MAXIMUM RATINGS @ TA = 25°C unless otherwise specified

PARAMETER	SYMBOL	BAS70	BAS70-04	BAS70-05	BAS70-06	UNIT
Device marking code	Note	BE	CG	EH	GK	
Continuous reverse voltage	V _R	70			V	
Continuous forward current	I _F	70			mA	
Non-repetitive peak forward current @ tp<1s; δ <0.5	I _{FSM}	100		mA		
Junction and storage temperature	$T_{J,}T_{STG}$	-65 ~ 150		°C		

Anode

STATIC ELECTRICAL CHARACTERISTICS @ T_A = 25°C unless otherwise specified

PARAMETER	TEST CONDITIONS	SYMBOL	МАХ	UNIT
Forward voltage	IF= 1mA IF= 10mA IF= 15mA	V _F	410 750 1000	mV
Reverse current (Note 1)	VR= 70V	I _R	10	uA
Diode capacitance	f = 1 MHz ; VR = 0	CD	2	pF

THERMAL CHARACTERISTICS (a) $T_A = 25^{\circ}C$ unless otherwise specified

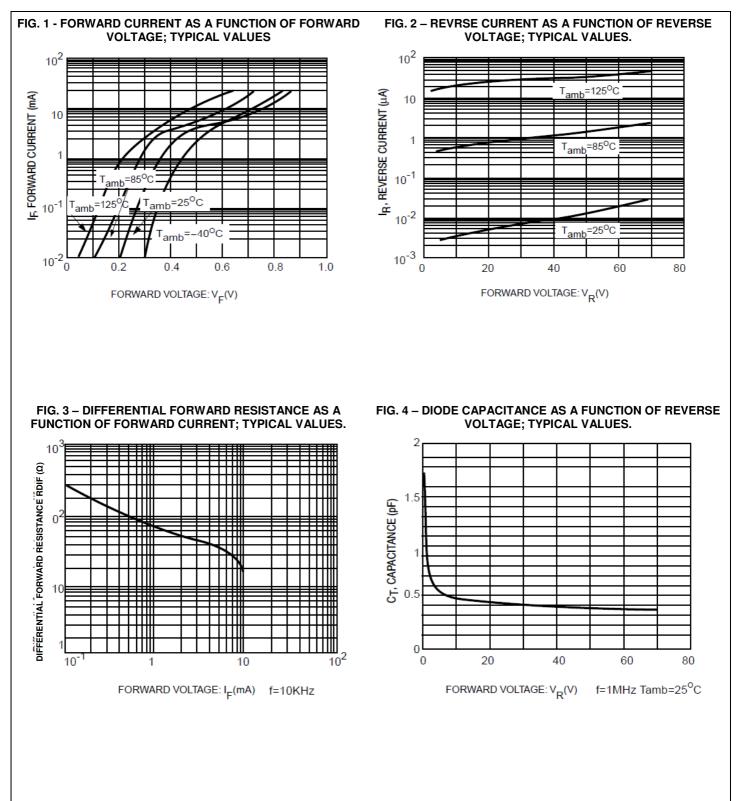
PARAMETER	SYMBOL	VALUE		UNIT
Thermal resistance - junction to ambient (Note 2)	Rthj _A	500		°C/W
Note :			BEV-2, Mar-2017, KSHB74	

(1) Pulse test : tp = 300us ; $\delta = 0.02$

(2) Refer to SOT-23 or SOT-143B standard mounting conditions.

RATING AND CHARACTERISTIC CURVES BAS70, BAS70-04 thru 06

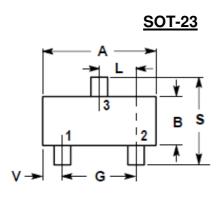




MECHANICAL INFORMATION BAS70, BAS70-04 thru 06



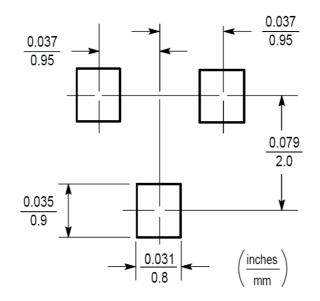
Package Dimensions :



Dim.	INC	HES	MILLIMETERS		
Dini.	Min.	Max.	Min.	Max.	
Α	0.1102	0.1197	2.80	3.04	
В	0.0472	0.0551	1.20	1.40	
С	0.0350	0.0440	0.89	1.11	
D	0.0150	0.0200	0.37	0.50	
G	0.0701	0.0807	1.78	2.04	
Н	0.0005	0.0040	0.013	0.100	
J	0.0034	0.0070	0.085	0.177	
К	0.0140	0.0285	0.35	0.69	
L	0.0350	0.0401	0.89	1.02	
S	0.0830	0.1039	2.10	2.64	
v	0.0177	0.0236	0.45	0.60	

Soldering Pad Layout :

D



Note:

С

Н

Dimensioning and tolerancing per ansiy14.5m 1982
Controlling dimension : inch

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