

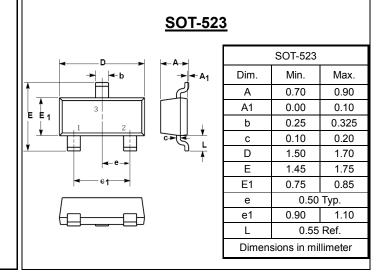
SURFACE MOUNT SCHOTTKY BARRIER DIODE

FEATURES

- Extremely Fast Switching Speed
- Low Forward Voltage
- Very Small Conduction Losses

MECHANICAL DATA

- Case: SOT-523 Plastic
- Case Material: "Green" molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl)
- Moisture Sensitivity: Level 1 per J-STD-020D
- Lead Free in RoHS 2002/95/EC Compliant



Maximum Ratings & Thermal Characteristics @ $T_A = 25^{\circ}C$ unless otherwise specified

Characteristic	Symbol	BAS70T	BAS70 -04T	BAS70 -05T	BAS70 -06T	Units
Repetitive Peak Reverse Voltage	V _{RRM}				V	
Working Peak Reverse Voltage	V _{RWM}	70		v		
DC Blocking Voltage	V _R					
Forward Continuous Current	I _{FM}	70		mA		
Non-Repetitive Peak Forward Surge Current @ tp<1.0s	I _{FSM}	100		mA		
Power Dissipation	PD	150		mW		
Thermal Resistance Junction to Ambient	R _{⊖JA}	833		°C/W		
Operating Temperature Range	TJ	125		°C		
Storage Temperature Range	T _{STG}	-55~+125		°C		

Electrical Characteristics @ $T_A = 25^{\circ}C$ unless otherwise specified

Characteristic	Test Condition	Symbol	BAS70T	BAS70 -04T	BAS70 -05T	BAS70 -06T	Unit
Reverse Breakdown Voltage	I _R = 10uA	V_{BR}	70				V
Maximum Forward Voltage	I _F = 1mA I _F = 15mA	V_{F}	410 1000				mV
Maximum DC Reverse Current at Rated DC Blocking Voltage	V _R = 50V	I _R		1(00		nA
Typical Diode Capacitance	V _R =0V,f=1MHz	CD		:	2		pF
Reverse Recovery time	Irr=1mA, IR=IF=10mA RL=100Ω	trr	5			nS	
					REV. 1, C	oct-2010, K	SHR16

BAS70T, BAS70-04T thru -06T

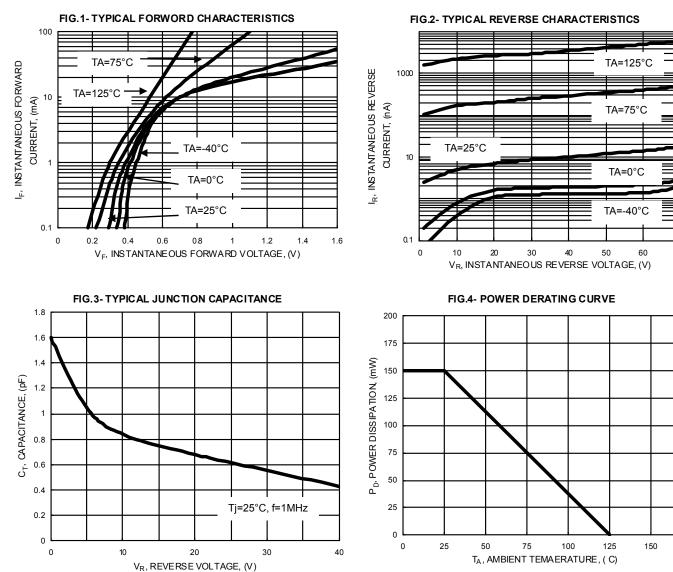
REVERSE VOLTAGE – 70 Volts FORWARD CURRENT – 0.07 Ampere

RATING AND CHARACTERISTIC CURVES BAS70T, BAS70-04T thru -06T



70

175



Device Marking :

Device P/N	Marking	Equivalent Circuit Diagram
BAS70T	7C	3 0 —— ● 1
BAS70-04T	7D	3 0− − 0 1 2
BAS70-05T	7E	3 00 1
BAS70-06T	7F	3 0 1 0 1



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