

## Surface Mount Schottky Barrier Diode BAS70T/-04T/-05T/-06T

### FEATURES

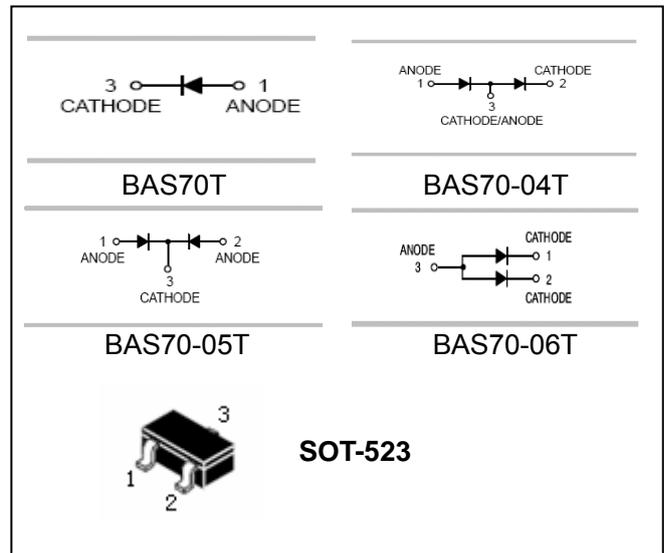
- Low turn-on voltage.
- Fast switching.
- Ultra-small surface mount package.
- PN junction guard ring for transient and ESD protection.



### APPLICATIONS

- Schottky barrier diodes.

### ORDERING INFORMATION



Type No.	Marking	Package Code
BAS70T	7C	SOT-523
BAS70-04T	7D	SOT-523
BAS70-05T	7E	SOT-523
BAS70-06T	7F	SOT-523

### MAXIMUM RATING @ Ta=25°C unless otherwise specified

Symbol	Parameter	Value	Units
$V_{RRM}$	Peak repetitive reverse voltage	70	V
$V_{RWM}$	Working peak reverse voltage		
$V_R$	DC reverse voltage		
$V_{R(RMS)}$	RMS reverse voltage	70	V
$I_F$	Forward continuous voltage	200	mA
$I_{FSM}$	Non-repetitive peak forward surge current @t<1.0s	100	mA
$P_d$	Power dissipation	150	mW
$R_{\theta JA}$	Thermal resistance junction to ambient	833	°C/W
$T_j, T_{stg}$	Junction and Storage Temperature	-65~150	°C

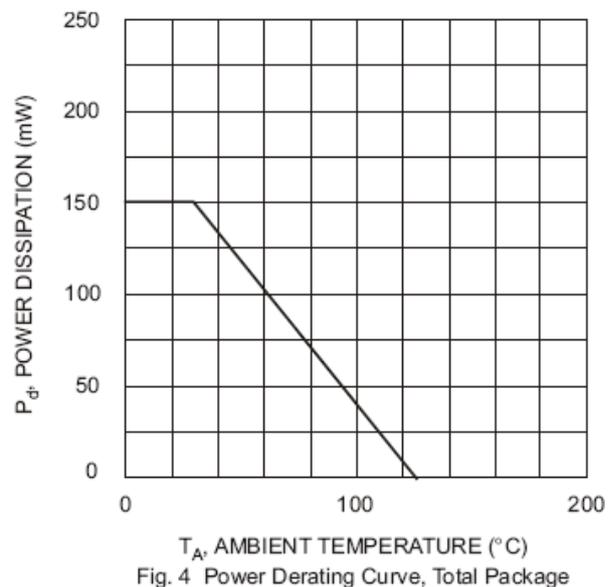
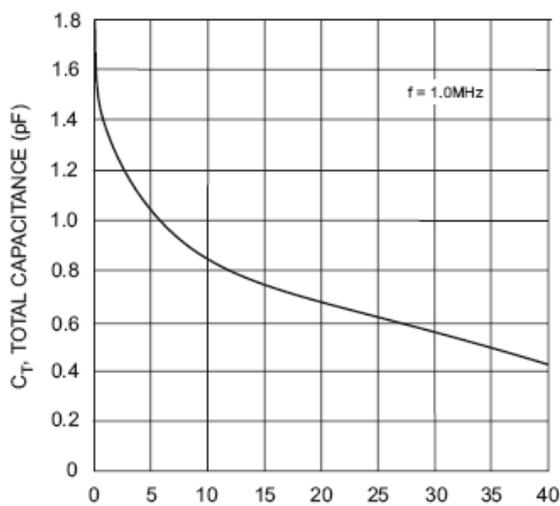
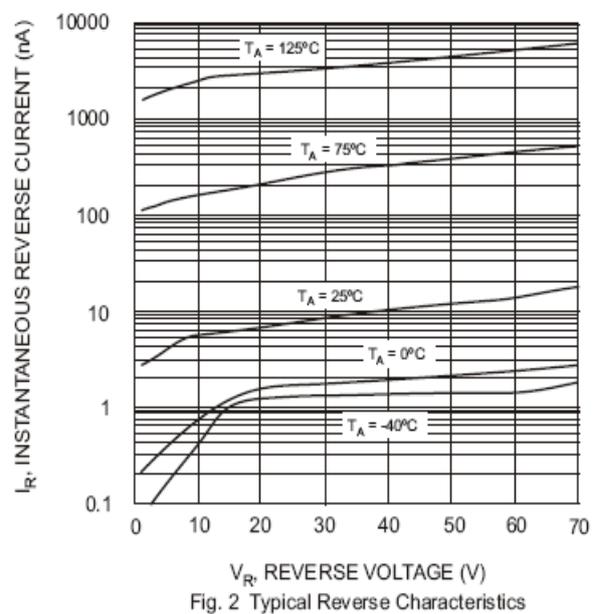
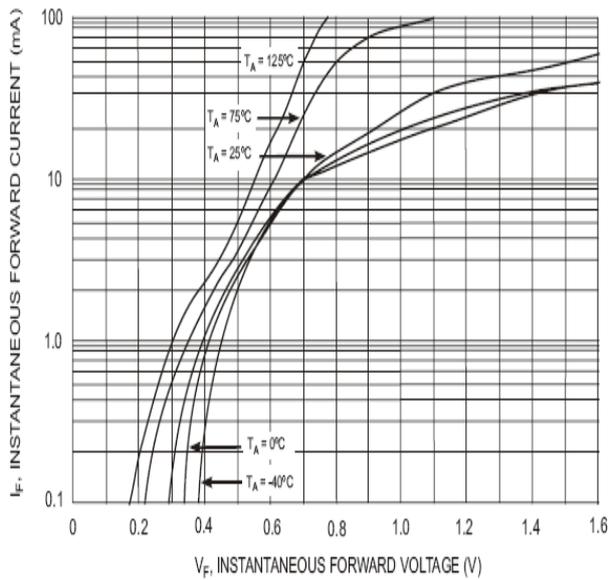
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### ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)R}$	$I_R=10\mu A$	70		V
Leakage current	$I_R$	$V_R=50V, t_p < 300\mu s$		100	nA
Forward voltage	$V_F$	$I_F=1.0mA, t_p < 300\mu s$ $I_F=15mA, t_p < 300\mu s$		410 1000	mV
Typical total capacitance	$C_T$	$V_R=0V, f=1MHz$		2.0	pF
Reverse recovery Time	$t_{rr}$	$I_F=I_R=10mA, I_{rr}=0.1 \cdot I_R, R_L=100\Omega$		5.0	ns

### TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified



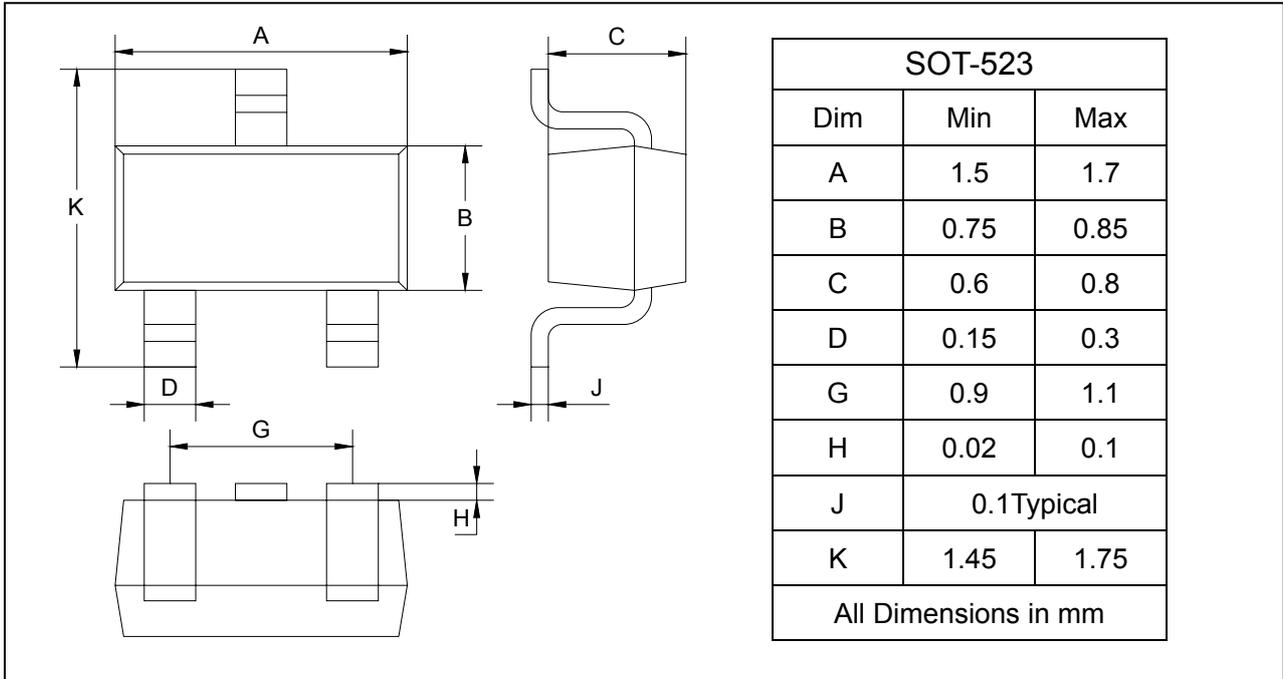
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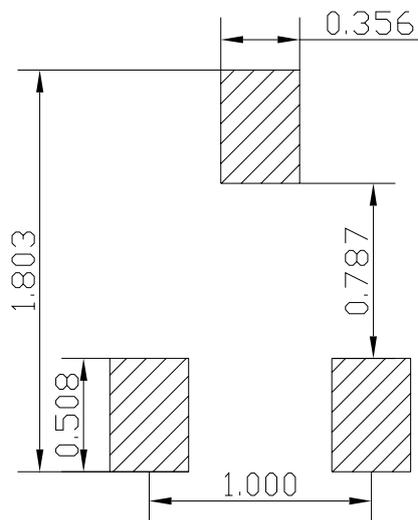
### PACKAGE OUTLINE

Plastic surface mounted package

SOT-523



### SOLDERING FOOTPRINT



Unit : mm

### PACKAGE INFORMATION

Device	Package	Shipping
BAS70T/-04T/-05T/06T	SOT-523	3000/Tape&Reel