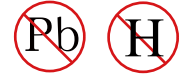




YEA SHIN TECHNOLOGY CO., LTD
SCHOTTKY DIODE

BAS70TS



FEATURES

- Low Turn-on voltage
- Fast switching
- Ultra-small surface mount package
- Also available in lead free version

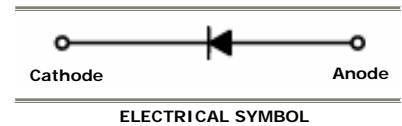
High temperature soldering : 260°C / 10 seconds at terminals
 Pb free product at available : 99% Sn above meet RoHS
 environment substance directive request



SOD-523 Flat Lead

DEVICE MARKING CODES:

Device Type	Device Marking
BAS70TS	70



Maximum Rating $T_A=25^{\circ}\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Unit
V_R	DC Voltage	70	V
I_F	Forward Continuous Current	70	mA
P_d	Power Dissipation	150	mW
T_J, T_{STG}	Junction Operating and Storage Temperature	-55 to +150	°C
$R_{\theta JA}$	Thermal Resistance	833	°C/W

Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min.	Max.	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R=10\mu\text{A}$	70	-	V
Reverse Leakage Current	I_R	$V_R=50\text{V}$	-	100	nA
Forward Voltage	V_F	$I_F=1\text{mA}$ $I_F=15\text{mA}$	-	410 1000	mV
Diode Capacitance	C_D	$V_R=0\text{V}, f=1\text{MHz}$	-	2	pF

DEVICE CHARACTERISTICS

BAS70TS

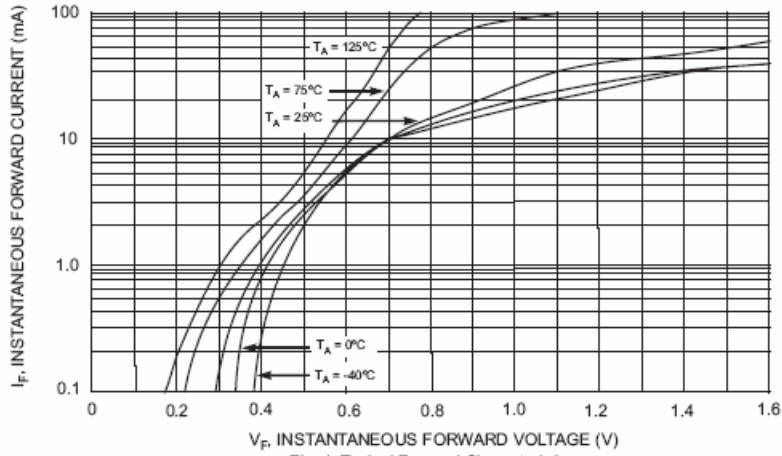


Fig. 1 Typical Forward Characteristics

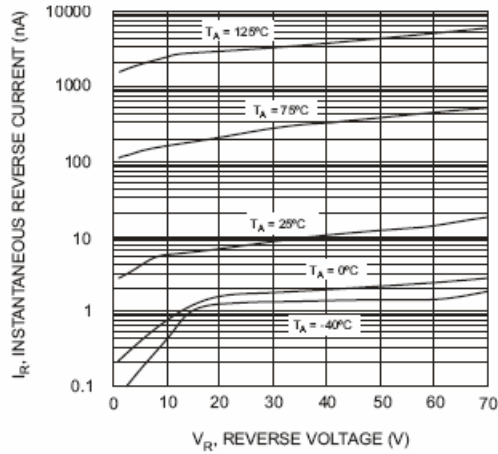


Fig. 2 Typical Reverse Characteristics

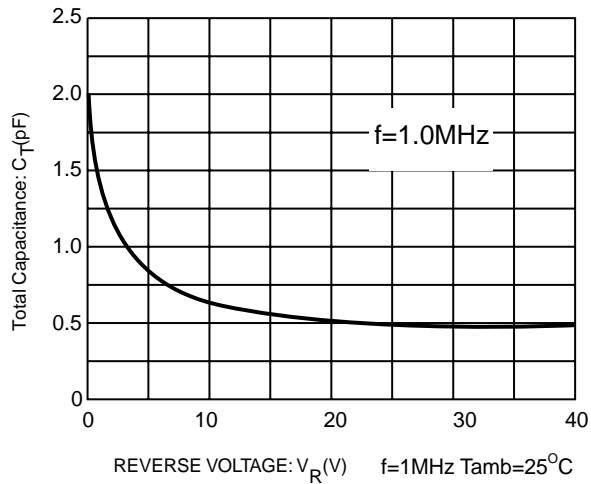


Fig.3 Typical Capacitance.

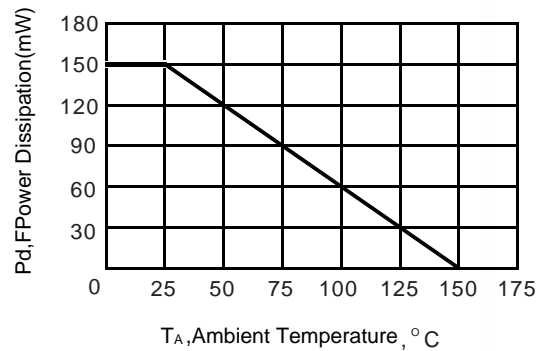


Fig.4-Power Derating Curve, Total Package

PACKAGE OUTLINE AND DIMENSIONS

BAS70TS

Flat Lead SOD-523 Package Outline

