BAV99T

Fast Switching Diode

Forward Current - 75 mA
Reverse Voltage - 85 V

Features

- Fast Switching Device Signal(TRR<4 nS)
- Power Dissipation of 150mW
- High Conductance
- For General Purpose Switching Applications

Mechanical Data

- Case: SOT523 Package
- Case Material: “Green” Molding Compound UL Flammability Classification Rating 94V-0
- Halogen Free

Note: Products with logo HY® or hy® are made by HY Electronic (Cayman) Limited.

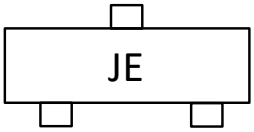
Ordering Information

- Package :SOT523
- Reel Size :7 (inches)
- Quantity Per Reel :3,000 pcs
- Quantity One Box :45,000 pcs
- Quantity One Carton :180,000 pcs

Package Outline

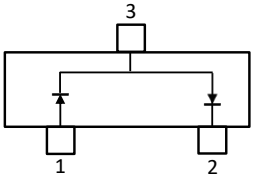
SOT523 Top View

Marking Information



"JE" = Product Type Marking Code

Device Schematic & PIN Configuration



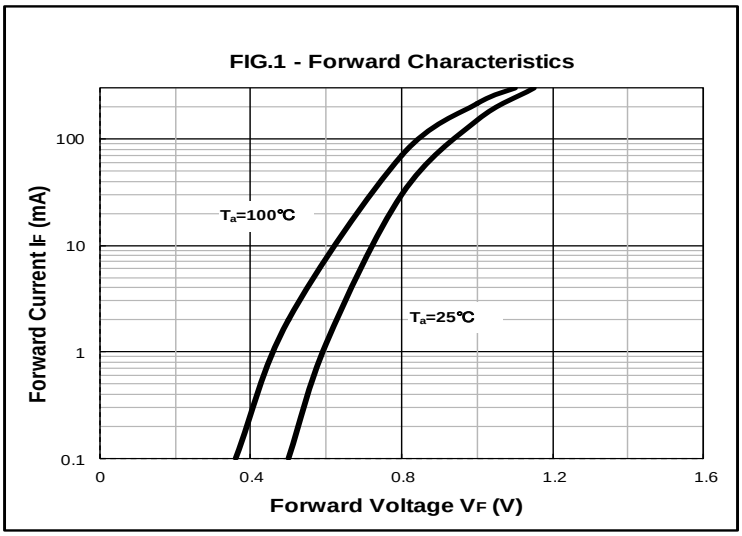
Maximum Ratings (@TA = +25°C, unless otherwise specified.)

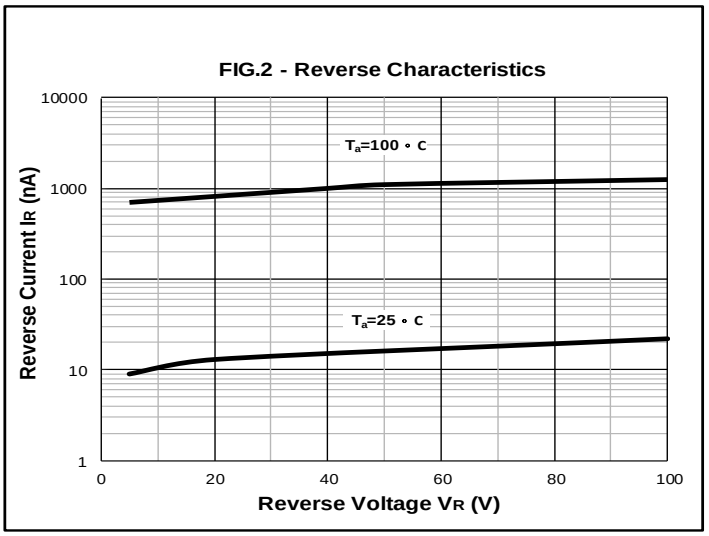
Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	85	V
Forward Current	I_O	75	mA
Non-repetitive Peak Forward Surge Current @t=8.3ms	I_{FSM}	2	A
Power Dissipation	P_D	150	mW
Junction Temperature	TJ	150	° C
Storage Temperature Range	T_{STG}	-55 to +150	° C

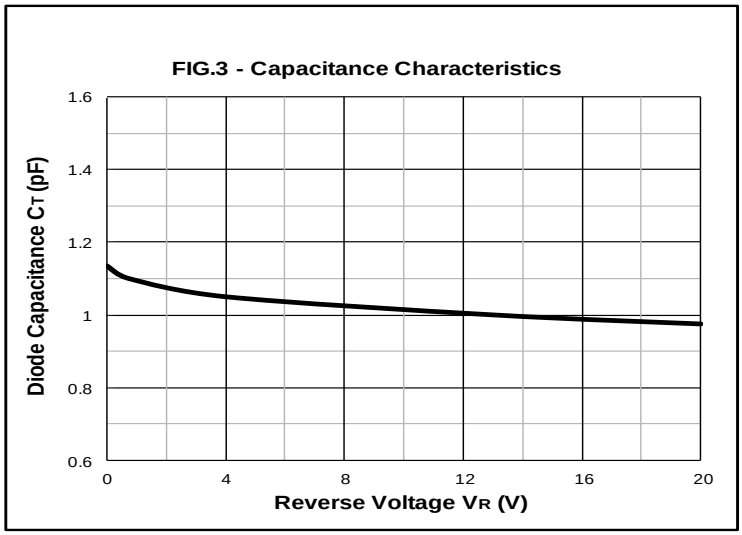
Electrical Characteristics(@TA = +25°C, unless otherwise specified.)

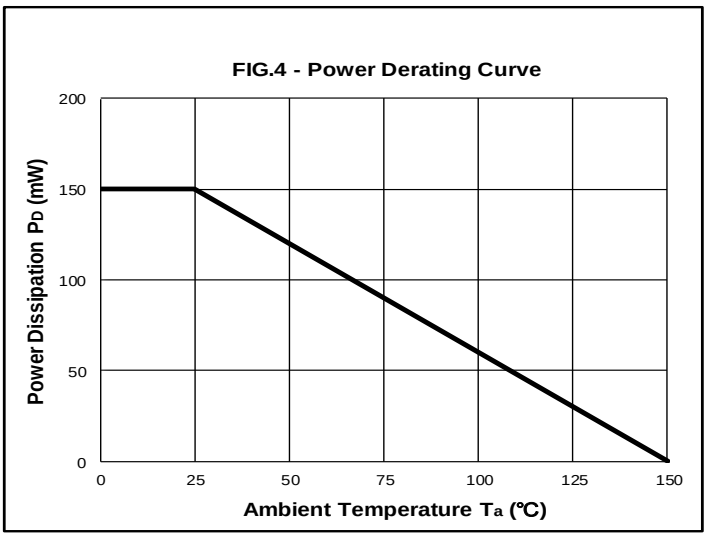
Parameter	Test Conditions	Symbol	Min	Max	Unit
Reverse Voltage	I_R=1uA	V_{BR}	85	-	V
Reverse Current	V_R=75V	I_R	-	2	uA
	V_R=25V		-	0.03	uA
Forward Voltage	I_F=1mA	V_F	-	715	mV
	I_F=10mA		-	855	
	I_F=50mA		-	1000	
	I_F=150mA		-	1250	
Capacitance	V_R=0V, F=1MHz	C_T	-	1.5	pF
Reverse Recovery Time	I_F=I_R=10mA,R_L=100Ω , I_{RR}=-0.1 X I_R	T_{RR}	-	4	ns

Rating and Characteristic Curves



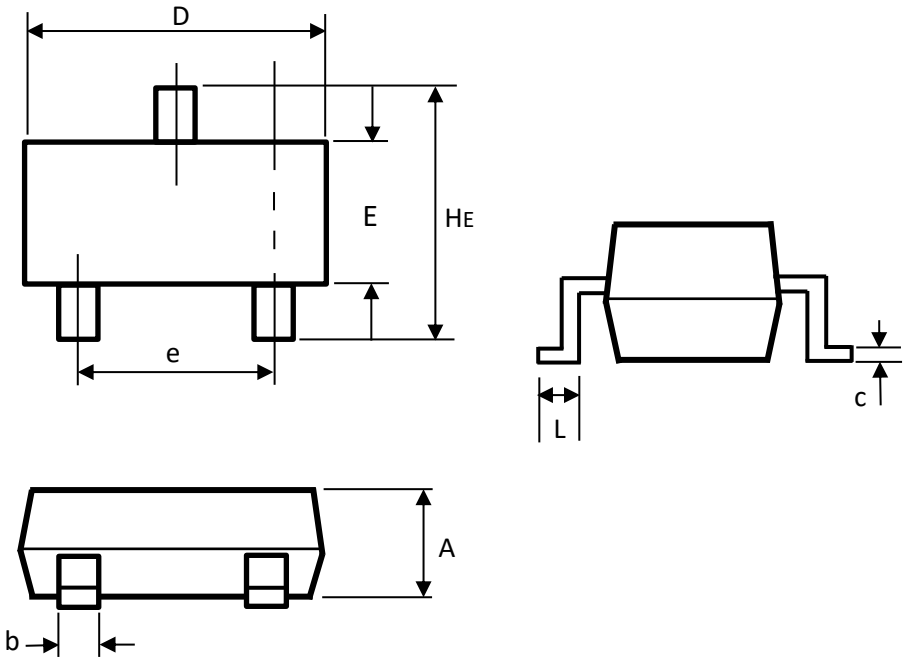






The curve above is for reference only.

Package Outline Dimensions



SOT523 Package		
Dim	Min	Max
A	0.74	0.76
b	0.19	0.21
c	0.10	0.20
D	1.50	1.70
E	0.70	0.90
e	0.90	1.10
L	0.28	0.44
H_E	1.45	1.75
All Dimensions in mm		

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