

150mW SOT-523 SURFACE MOUNT Plastic Package Fast Switching Diode

Absolute Maximum Ratings T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
PD	Power Dissipation	150	mW
T _{STG}	Storage Temperature Range	-55 to +125	°C
TJ	Operating Junction Temperature	+125	°C
V _R	Reverse Voltage	85	V
I _{FO}	Forward Current	75	mA



SOT-523

These ratings are limiting values above which the serviceability of the diode may be impaired.

Specification Features:

- Fast Switching Device
- General Purpose Diodes
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish



Electrical Symbol & Marking Codes:

BAW56T Marking: JD

4	Ŧ
1	2
BAV70T	
Marking	: JJ



BAV99T Marking: JE

Electrical Characteristics	T _A = 25°C unless otherwise noted
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Symbol	Parameter	Test Condition	Limits		Unit	
Symbol	Farameter	rest condition	Min	Max	Unit	
V _{BR)}	Reverse Breakdown Voltage	I _R =1μA	85		Volts	
I _R	Reverse Leakage Current	V _{R1} =75V		2		
		V _{R2} =25V		0.03	μA	
V _F	Forward Voltage	I _F =1mA		0.715		
		I _F =10mA		0.855		
		I _F =50mA		1.00	Volts	
		I _F =150mA		1.25		
CD	Diode Capacitance	V _R =0V, f=1MHz	1.5		pF	
T _{rr}	Reverse Recovery Time	I _F = I _R = 10mA				
		I_{RR} =0.1x I_{R} , R_{L} =100 Ω		4	ns	



SEMICONDUCTOR

SOT-523 Package Outline



Typical Soldering Pattern:



DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
А	0.70	0.90	0.028	0.035
A1	0.00	0.10	0.000	0.004
A2	0.70	0.80	0.028	0.031
b1	0.15	0.25	0.006	0.010
b2	0.25	0.35	0.010	0.014
С	0.10	0.20	0.004	0.008
D	1.50	1.70	0.059	0.067
Е	0.70	0.90	0.028	0.035
E1	1.45	1.75	0.057	0.069
е	0.50	TYP.	0.020	TYP.
e1	0.90	1.10	0.035	0.043
L	0.40 REF.		0.016	REF.
L1	0.10	0.30	0.004	0.012
θ	0 °	8 °	0 °	8 °

NOTES:

Above package outline conforms to JEITA EAIJ ED-7500A SC-75A.
Dimensions are exclusive of Burrs, Mold Flash & Tie Bar extrusions.



NOTICE

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