



BAW56

SOT-23 Formed SMD Package

For Lead Free Parts, Device Part # will be Prefixed with "T"

Marking BAW56 - A1

High-Speed Switching Dual Diodes, Common Anode

ABSOLUTE MAXIMUM RATINGS (Rating Per Diode)

DESCRIPTION	SYMBOL	VALUE	UNIT
Continuous Reverse Voltage	V _R	75	V
Repetitive Peak Reverse Voltage	V _{RRM}	85	V
Forward Current (DC)	I _F	215	mA
Repetitive Peak Forward Current	I _{FRM}	450	mA
Non Repetitive Peak Forward Current			
(per crystal)			
t=1 m6	I _{FSM}	4.0	A
t=1 ms	I _{FSM}	1.0	А
t=1 s	I _{FSM}	0.5	А
Power Dissipation up to T _a =25 ^o C	PD	250	mW
Storage Temperature	T _{stg}	- 55 to +150	٥C
Junction Temperature	T _i	150	°C

THERMAL RESISTANCE

Junction to Ambient in free air	R _{th (j-a)}	500	K/W

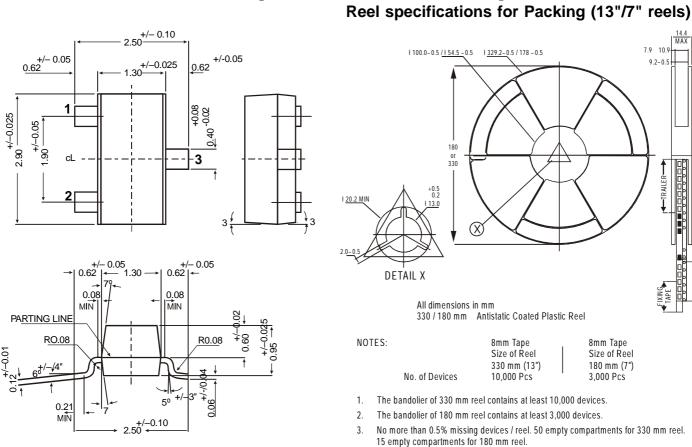
ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}$ C unless specified otherwise) per diode

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
Forward Voltage	V _F	I _F = 1mA		0.715	V
		$I_F = 10 mA$		0.855	V
		I _F = 50mA		1.0	V
		I _F = 150mA		1.25	V
Reverse Current	I _R	V _R =25V, T _J =150°C		30	μΑ
		V _R =75V		1.0	μΑ
		V _R =75V, T _J =150°C		50	μΑ
Diode Capacitance	C _d	V _R =0V, f=1MHz		2.0	pF
Forward Recovery Voltage	V _{fr}	I _F =10mA, t _r =20ns		1.75	V
Reverse Recovery Time	t _{rr}	I_F =10mA, to I_R =60mA, I_R =1.0mA, R_L =100 Ω		4.0	ns
Reverse Charge When Switched Time	Q _S	I_F =10mA to V_R =5V, R _L =100 Ω		45	рС

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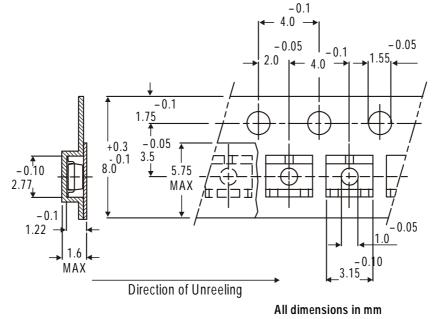


Three consecutive empty places might be found provided this gap is followed by 6 consecutive devices.

SOT-23 Package Reel Information

5. The carrier tape (leader) starts with at least 75 empty positions (equivalent to 330 mm). In order to fix the carrier tape a self adhesive tape of 20 to 50 mm is applied. At the end of the bandolier at least 40 empty positions (equivalent to 160 mm) are there.

Tape Specification for SOT-23 Surface Mount Device



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Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
SOT-23 T&R	3K/reel		3" x 7.5" x 7.5" 9" x 9" x 9"	12.0K 51.0K	17" x 15" x 13.5" 19" x 19" x 19"	192.0K 408.0K	12 kgs 28 kgs
	10K/reel	415 gm/10K pcs	13" x 13" x 0.5"	10.0K	17" x 15" x 13.5"	300.0K	16 kgs

Customer Notes

Component Disposal Instructions

- 1. CDIL Semiconductor Devices are RoHS compliant, customers are requested to please dispose as per prevailing Environmental Legislation of their Country.
- 2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

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