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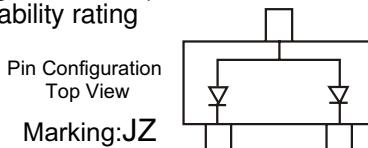
Micro Commercial Components



Micro Commercial Components
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Features

- Halogen free available upon request by adding suffix "-HF"
- Low leakage current: typ. 3pA
- Switching time: typ. 0.8s
- Continuous reverse voltage: max. 75V
- Repetitive peak reverse voltage: max. 85V
- Repetitive peak forward current: max. 500mA.
- Lead Free Finish/Rohs Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1



Maximum Ratings

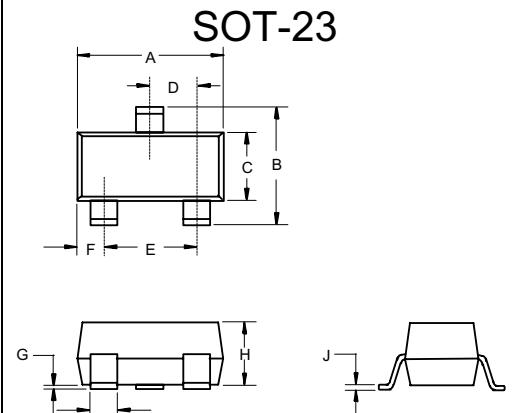
- Operating Temperature Range: -65°C to +150°C
- Storage Temperature Range: -65°C to +150°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

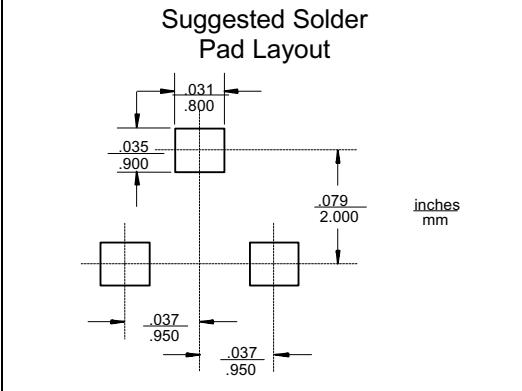
Reverse Voltage	V_R	75V	
Peak Forward Current	I_{FM}	160mA	
Power Dissipation	P_d	250mW	
Maximum Instantaneous Forward Voltage	V_F	900mV 1000mV 1100mV 1250mV	$I_{FM} = 1\text{mA};$ $I_{FM} = 10\text{mA}$ $I_{FM} = 50\text{mA}$ $I_{FM} = 150\text{mA}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5nA	$V_R=75V$
Diode Capacitance	C_D	3pF	Measured at 1.0MHz, $V_R=0V$
Reverse Recovery Time	t_{rr}	3uS	$I_F=I_R=10\text{mA}$ $R_L=100\Omega$

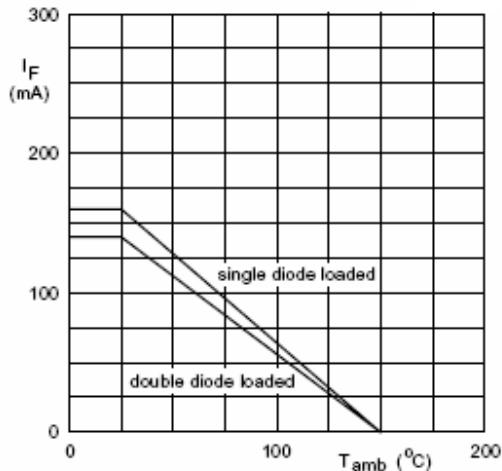
BAW156

250mW 75Volts
Dual Switching Diode



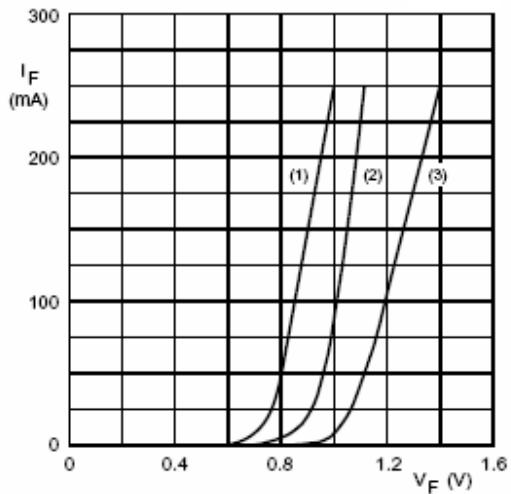
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.110	.120	2.80	3.04	
B	.083	.104	2.10	2.64	
C	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
H	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

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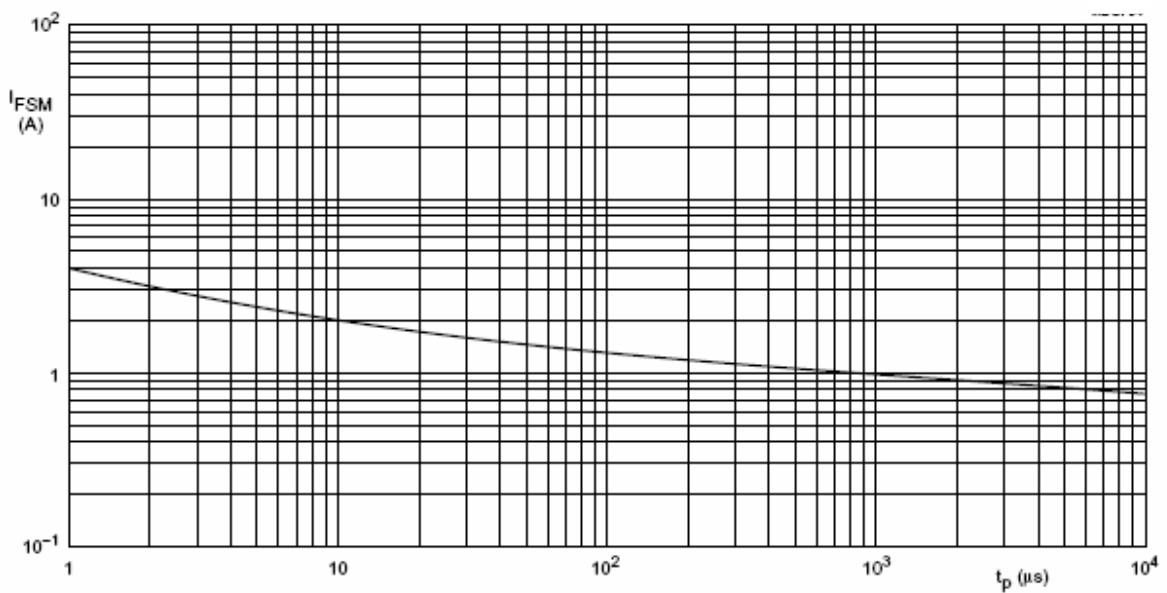
Device mounted on a FR4 printed-circuit board.

Fig.2 Maximum permissible continuous forward current as a function of ambient temperature.



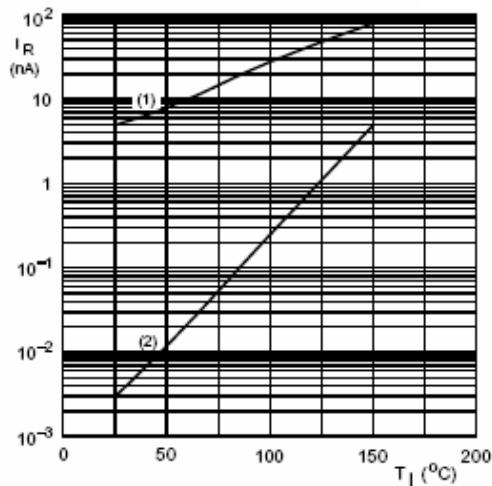
- (1) $T_j = 150$ $^{\circ}$ C; typical values.
- (2) $T_j = 25$ $^{\circ}$ C; typical values.
- (3) $T_j = 25$ $^{\circ}$ C; maximum values.

Fig.3 Forward current as a function of forward voltage; per diode.



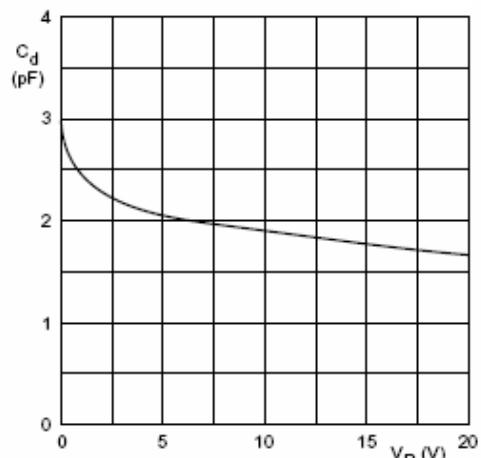
Based on square wave currents.
 $T_j = 25$ $^{\circ}$ C prior to surge.

Fig.4 Maximum permissible non-repetitive peak forward current as a function of pulse duration per diode.



$V_R = 75 \text{ V}$.

Fig.5 Reverse current as a function of junction temperature; per diode.



$f = 1 \text{ MHz}; T_J = 25 \text{ }^{\circ}\text{C}$.

Fig.6 Diode capacitance as a function of reverse voltage; per diode; typical values.

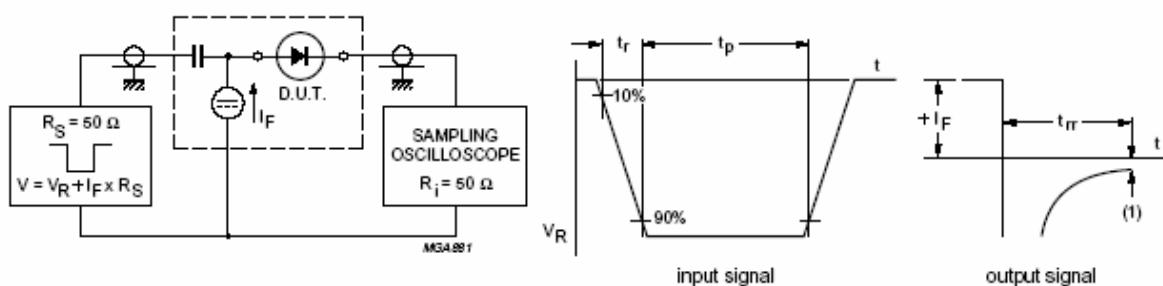


Fig.7 Reverse recovery time test circuit and waveforms.

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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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