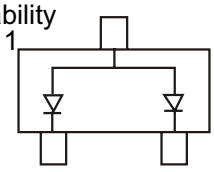
BAW156

250mW 75Volt s
Dual Switching Diode

Features

- 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.
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

Pin Configuration
Top View



Marking:JZ

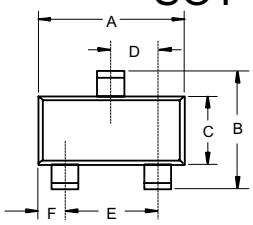
Maximum Ratings

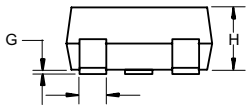
- Opearting Temperature Range: -65℃to+150℃
- Storage Temperature Range: -65°C to +150°C

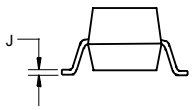
Electrical Characteristics @ 25°C Unless Otherwise Specified

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} = 1mA; I_{FM} = 10mA I_{FM} = 50mA I_{FM} = 150mA
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=IR=10mA R_L=100Ω

SOT-23

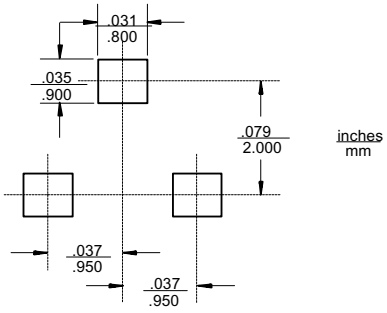


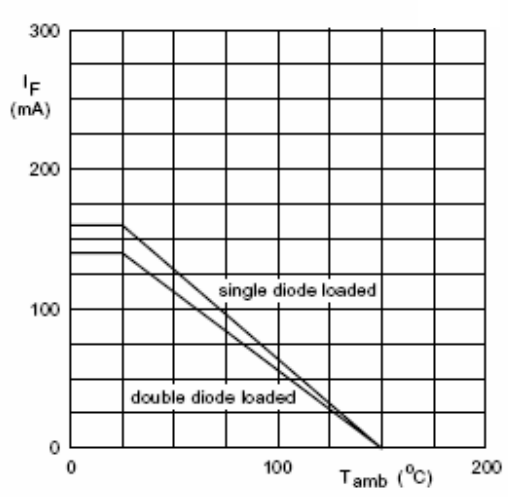




DIM	INCHES MIN	INCHES MAX	MM MIN	MM MAX	NOTE
A	.110	.120	2.80	3.04	
B	.083	.098	2.10	2.64	
C	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
H	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

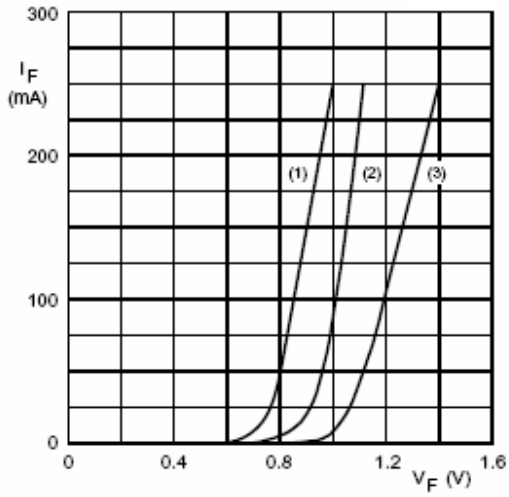
Suggested Solder Pad Layout





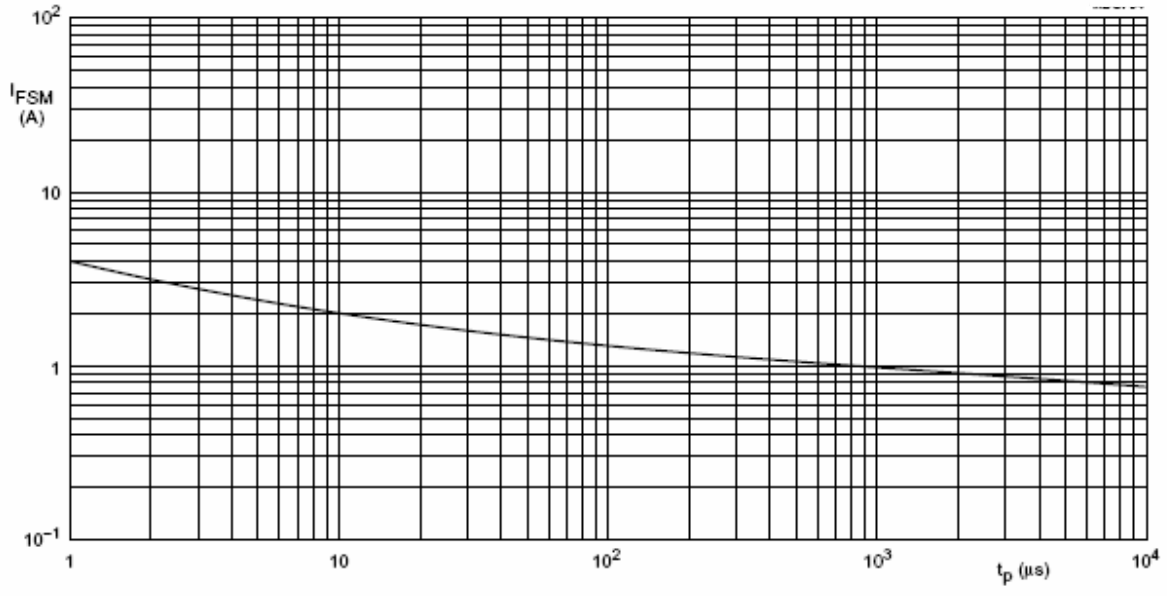
Device mounted on a FR4 printed-circuit board.

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



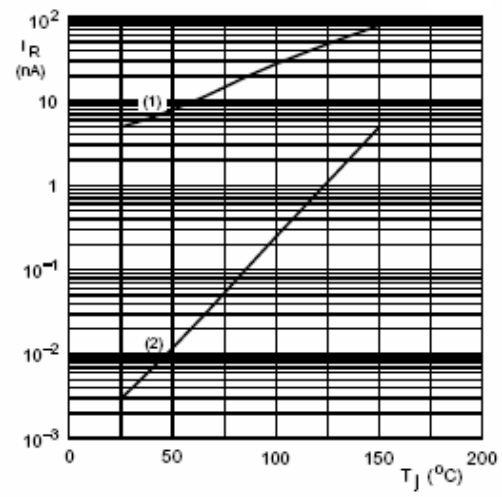
(1) T_j = 150 °C; typical values.
(2) T_j = 25 °C; typical values.
(3) T_j = 25 °C; maximum values.

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



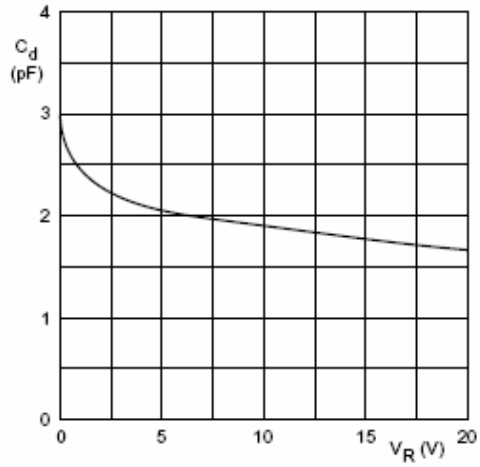
Based on square wave currents.
T_j = 25 °C prior to surge.

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



V_R = 75 V.

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



f = 1 MHz; T_j = 25 °C.

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

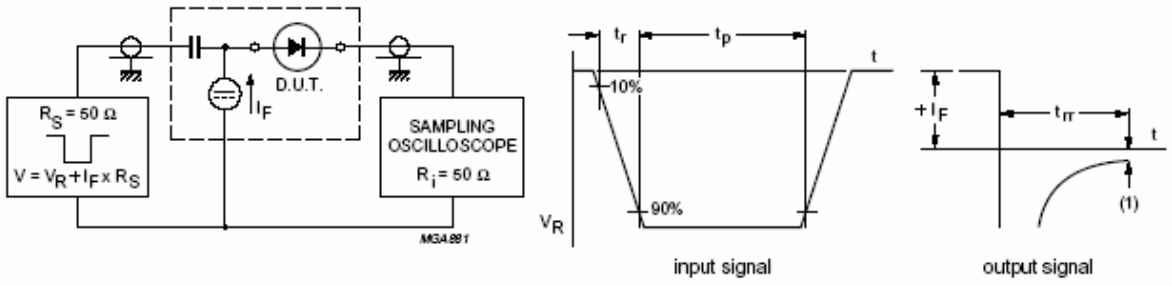


Fig.7 Reverse recovery time test circuit and waveforms.

Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;3Kpcs/Reel