

Features

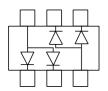
- · Fast Switching Speed
- · Ultra-Small Surface Mount Package
- · High Conductance
- For General Purpose Switching Applications
- · Halogen Free Available Upon Request By Adding Suffix "-HF"
- Moisture Sensitivity Level 1
- · Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance:625°C/W Junction to Ambient

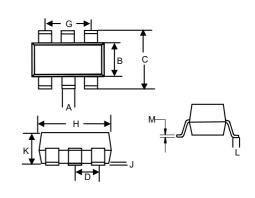
MCC Part Number	Device Marking	Repetitive Peak Reverse Voltage V _{RRM}	RMS Reverse Voltage V _{R(RMS)}	DC Blocking Voltage V _R
BAW56DW	KJC	75V	53V	75V
Non-Repetitive Peak Reverse Voltage	V_{RM}	100V		
Working Peak Reverse Voltage	V_{RWM}	75V		
Forward Continuous Current	I _{FM}	300mA		
Average Rectified Output Current	I _o	150mA		
Non-Repetitive Peak Forward Surge Current	I _{FSM}	2.0A 1.0A	@ t=1.0µs @ t=1.0s	
Power Dissipation	P _D	200mW		

Internal Structure



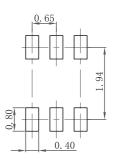
200mW Switching Diodes 75 Volts





DIMENSIONS					
DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.006	0.014	0.15	0.35	
В	0.045	0.053	1.15	1.35	
C	0.079	0.096	2.00	2.45	
D	0.026		0.65 Nominal		
G	0.047	0.055	1.20	1.40	
Ι	0.071	0.087	1.80	2.20	
J		0.004		0.10	
K	0.031	0.043	0.80	1.10	
L	0.010	0.018	0.26	0.46	
М	0.003	0.006	0.08	0.15	_

Suggested Solder Pad Layout





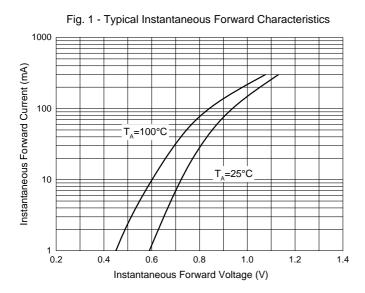
Electrical Characteristics @ 25°C Unless Otherwise Specified

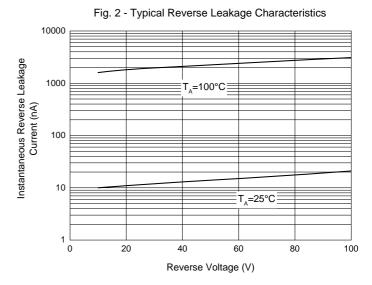
Minimum Breakdown Voltage	V_{BR}	75V	I _R =2.5μA
Maximum Forward Voltage (1)	V _F	0.715V 0.855V 1.000V 1.250V	I _F =1.0mA I _F =10.0mA I _F =50.0mA I _F =150.0mA
Maximum Peak Reverse voltage (1)	I _R	2.5µA 50µA 30µA 25nA	$V_R = 75V$ $V_R = 75V$, $T_j = 150$ °C $V_R = 25V$, $T_j = 150$ °C $V_R = 20V$
Maximum Junction Capacitance	CJ	2.0pF	V _R =0.0V,f=1.0MHz
Maximum Reverse Recovery Time	t _{rr}	4.0ns	I_F =10mA, I_R =10mA I_{rr} =0.1*IR, R_L =100 Ω

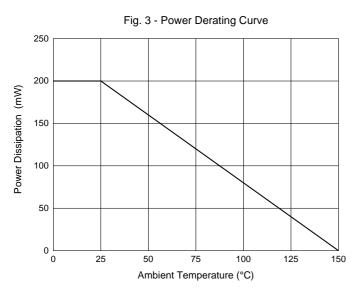
^{*(1)} Short duration test pulse to minimize self-heating effect.



Curve Characteristics









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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