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Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939

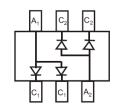
## **BAW56DW**

### **Features**

- · Fast switching speed
- Ultra-Small surface mount package
- For general purpose switching applications
- High conductance
- Lead Free Finish/Rohs Compliant ("P"Suffix designates RoHS Compliant. See ordering information)

### **Mechanical Data**

- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking Code: KJC



# **Maximum Ratings**

Symbol	Rating	Rating	Unit
$V_{RM}$	Non-Repetitive Peak Reverse Voltage	100	V
$V_{RRM}$	Peak Repetitive Reverse Voltage		
$V_{RWM}$	Working Peak Reverse Voltage	75	V
$V_R$	DC Blocking Voltage		
$V_{R(RMS)}$	RMS Reverse Voltage	53	٧
I <sub>FM</sub>	Forward Continuous Current	300	mA
Ιο	Average Rectified Output Current	150	mA
	Non-Repetitive Peak Forward Surge Current		
I <sub>FSM</sub>	@ t=1.0us	2.0	Α
	@ t=1.0s	1.0	
P <sub>D</sub>	Power Dissipation	200	mW
$R_{JA}$	Thermal Resistance Junction to Ambient Air	625	°C/W
$T_J$	Junction Temperature	-55 to +150	$^{\circ}\mathbb{C}$
T <sub>STG</sub>	Storage Temperature	-55 to +150	$^{\circ}\mathbb{C}$

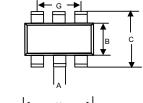
### Electrical Characteristics @ 25°C Unless Otherwise Specified

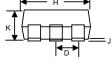
Symbol	Parameter I		Тур	Max	Units
$V_{(BR)R}$	Reverse Breakdown Voltage (I <sub>R</sub> =2.5µAdc)	75		-	V
	Forward Voltage (1)				
	I <sub>F</sub> =1.0mAdc			0.715	
$V_{F}$	I <sub>F</sub> =10mAdc			0.855	V
	I <sub>F</sub> =50mAdc			1.0	
	I <sub>F</sub> =150mAdc			1.25	
	Leakage Current (1)				
	(V <sub>R</sub> =75Vdc)			2.5	uA
$I_R$	(V <sub>R</sub> =75Vdc, Tj=150°ℂ)			50	uA
	(V <sub>R</sub> =25Vdc, Tj=150°ℂ)			30	uA
	(V <sub>R</sub> =20Vdc)			25	nA
C <sub>j</sub>	Junction Capacitance			2.0	pF
	(V <sub>R</sub> =0, f=1.0MHz)			2.0	Ы
t <sub>rr</sub>	Reverse Recovery Time				
	$(I_F=10mA, I_R=10mA, Irr=0.1 \times I_R)$			4.0	ns
	R <sub>L</sub> =100OHMS)				

<sup>\*(1)</sup> Short duration test pulse to minimize self-heating effect.

## 200mW Switching Diodes 75 Volts



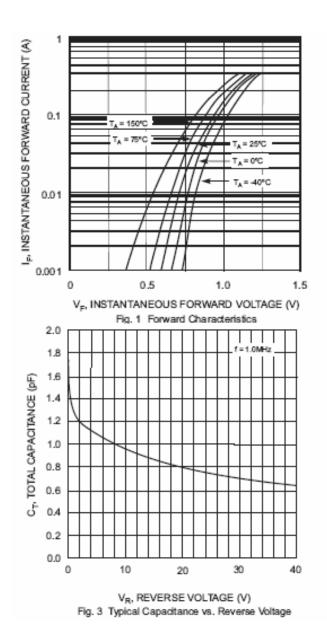


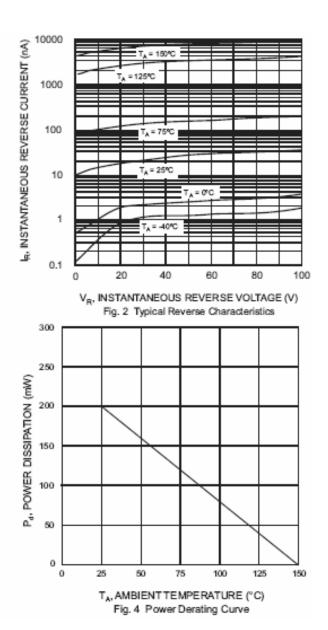




DIMENSIONS						
	INCH	ES	м	М		
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.006	.014	0.15	0.35		
В	.045	.053	1.15	1.35		
С	.085	.096	2.15	2.45		
D	.02	6	0.65N	ominal		
G	.047	.055	1.20	1.40		
Н	.071	.087	1.80	2.20		
J		.004		0.10		
K	.035	.043	0.90	1.10		
L	.010	.018	0.26	0.46		
M	003	വാട	0.00	0.15		









#### **Ordering Information:**

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

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