

RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

### FEATURES

- Fast Switching Speed
- Ultra-Small Surface Mount Package
- For General Purpose Switching Applications
- High Conductance

### MARKING

KJC

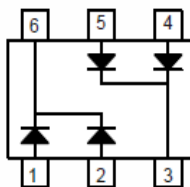
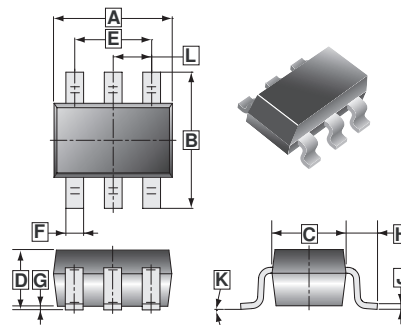
### PACKAGE INFORMATION

Package	MPQ	Leader Size
SOT-363	3K	7 inch

### ORDER INFORMATION

Part Number	Type
BAW56DW	Lead (Pb)-free
BAW56DW-C	Lead (Pb)-free and Halogen-free

### SOT-363



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.80	2.20	G	0.100 REF.	
B	1.80	2.45	H	0.525 REF.	
C	1.15	1.35	J	0.08	0.25
D	0.80	1.10	K	8°	
E	1.10	1.50	L	0.650 TYP.	
F	0.10	0.35			

### ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub>=25°C unless otherwise specified)

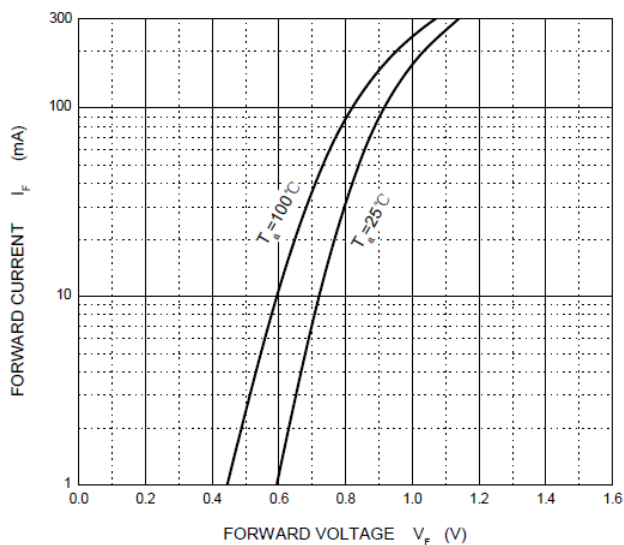
Parameter	Symbol	Ratings	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	75	V
Working Peak Reverse Voltage	V <sub>RWM</sub>		
DC Blocking Voltage	V <sub>R</sub>		
Forward Continuous Current	I <sub>FM</sub>	300	mA
Average Rectified Output Current	I <sub>O</sub>	150	mA
Peak Forward Surge Current @t=8.3ms	I <sub>FSM</sub>	2	A
Power Dissipation	P <sub>D</sub>	200	mW
Thermal Resistance, Junction-Ambient	R <sub>θJA</sub>	625	°C/W
Junction, Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	150, -55~150	°C

### ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise specified)

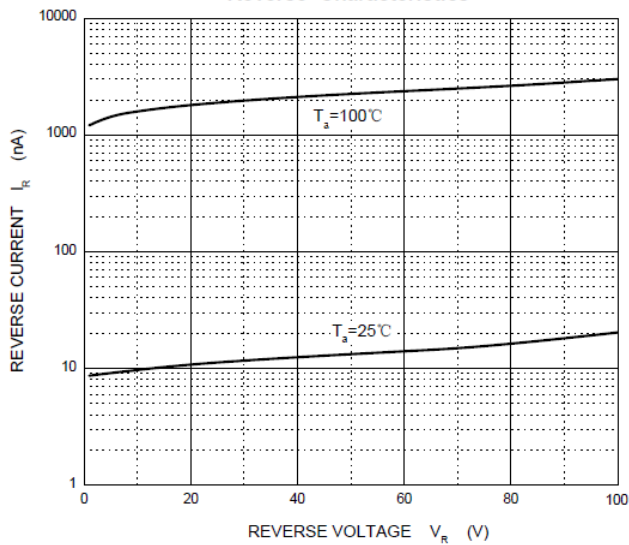
Parameters	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Forward Voltage	V <sub>F</sub>	-	-	715	mV	I <sub>F</sub> =1mA
		-	-	855		I <sub>F</sub> =10mA
		-	-	1000		I <sub>F</sub> =50mA
		-	-	1250		I <sub>F</sub> =150mA
Reverse Voltage Leakage Current	I <sub>R</sub>	-	-	2.5	μA	V <sub>R</sub> =75V
		-	-	0.025		V <sub>R</sub> =20V
Capacitance Between Terminals	C <sub>T</sub>	-	2	-	pF	V <sub>R</sub> =0, f=1MHz
Reverse Recovery Time	T <sub>RR</sub>	-	4	-	nS	I <sub>F</sub> =I <sub>R</sub> =10mA, I <sub>RR</sub> =0.1xI <sub>R</sub> , R <sub>L</sub> =100Ω

**RATINGS AND CHARACTERISTIC CURVES**

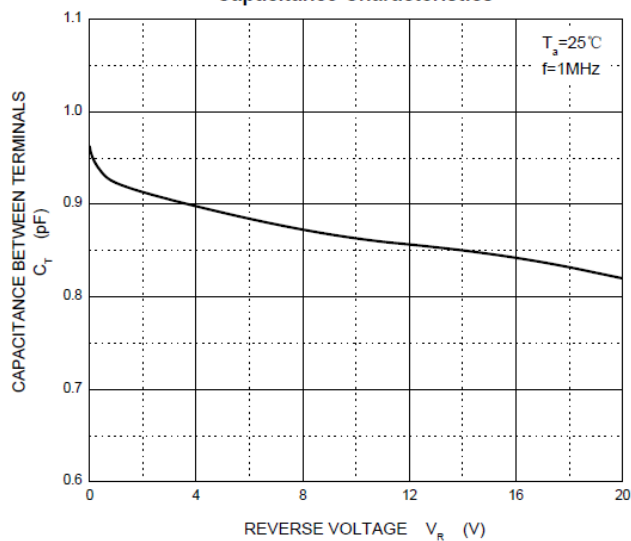
**Forward Characteristics**



**Reverse Characteristics**



**Capacitance Characteristics**



**Power Derating Curve**

