



SURFACE MOUNT FAST SWITCHING DIODE

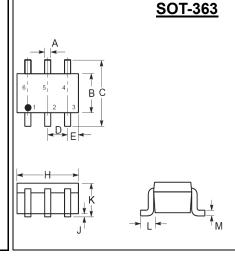
REVERSE VOLTAGE - 75 Volts FORWARD CURRENT - 0.15 Ampere

FEATURES

- · Fast switching speed
- Ideally suited for automatic insertion
- For general purpose switching applications

MECHANICAL DATA

- Case: SOT-363 Plastic
- Case material: "Green" molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl)
- Moisture sensitivity: Level 1 per J-STD-020D
- Lead free in RoHS 2002/95/EC compliant



	SOT-363			
Dim.	Min.	Max.		
Α	0.15	0.35		
В	1.15	1.35		
С	2.15	2.45		
D	0.65 TYP.			
Е	0.40 REF.			
Н	2.00	2.20		
J	0.00	0.10		
K	0.90	1.10		
L	0.525 REF.			
М	0.08	0.15		
Dimensions in millimeter				

Maximum Ratings & Thermal Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	BAW56DW	Units
Repetitive Peak Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	75	V
Forward Continuous Current	I _{FM}	300	mA
Average Rectified Output Current	I _O	150	mA
Non-Repetitive Peak Forward @t=1us Surge Current @t=1s	I _{FSM}	2 1	А
Power Dissipation	P _D	200	mW
Thermal Resistance Junction to Ambient	R⊕JA	625	°C/W
Operating Temperature Range	TJ	150	$^{\circ}$
Storage Temperature Range	T _{STG}	-65~+150	$^{\circ}$ C

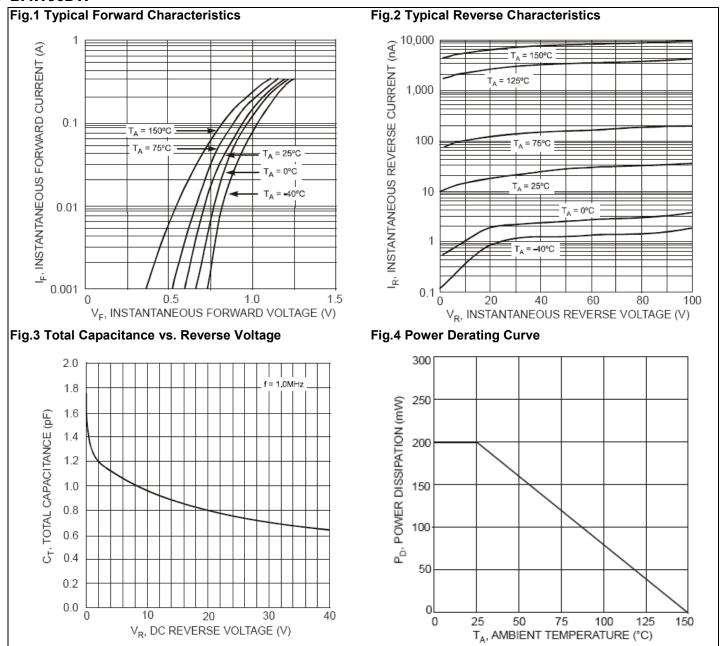
Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Test Condition	Symbol	Min.	Тур.	Max.	Unit
Reverse Breakdown Voltage	I _R = 2.5uA	V_{BR}	75			V
Maximum Forward Voltage	$I_F = 1 \text{mA}$ $I_F = 10 \text{mA}$ $I_F = 50 \text{mA}$ $I_F = 150 \text{mA}$	V _F	 	 	715 855 1000 1250	mV
Maximum DC Reverse Current at Rated DC Blocking Voltage	$V_R = 75V$ $V_R = 20V$	I _R			2.5 0.025	uA
Typical Diode Capacitance	V _R =0V,f=1MHz	C _D			2	pF
Reverse Recovery time	$Irr=1mA$, $I_R=I_F=10mA$ $R_L=100\Omega$	trr			4	ns

REV. 1, Oct-2010, KSYR47

RATING AND CHARACTERISTIC CURVES BAW56DW





Device Marking:

Device P/N	Marking code	Equivalent Circuit Diagram
BAW56DW	KJC	1 0 6
		3 0 5



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