WILLAS

RoHS COMPLIANT

SOT-363 Plastic-Encapsulate Diodes

BAV70DW

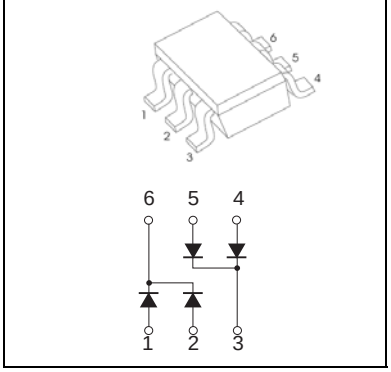
SWITCHING DIODE

FEATURES

- Fast Switching Speed
- Ultra-Small Surface Mount Package
- For General Purpose Switching Applications
- High Conductance
- **Pb-Free package is available**
  RoHS product for packing code suffix "G"
  Halogen free product for packing code suffix "H"
- **Moisture Sensitivity Level 1**

MAKING: KJA

SOT-363



Maximum Ratings @Ta=25℃

Parameter	Symbol	Limit	Unit
Peak Repetitive Peak Reverse Voltage **Working Peak Reverse Voltage** **DC Blocking Voltage**	V_{RRM} V_{RWM} V_R	100 100 75	V
Forward Continuous Current	I_{FM}	300	mA
Average Rectified Output Current	I_O	150	mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0μs **@ t = 1.0s**	I_{FSM}	2 1	A
Power Dissipation	P_D	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	625	℃/W
Operating Junction Temperature	T_J	150	℃
Storage Temperature	T_{STG}	-55~+150	℃

ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	I_R= 2.5μA	75		V
Reverse voltage leakage current	I_R	V_R=75V V_R=20V		2.5 0.025	μA
Forward voltage	V_F	I_F=1mA I_F=10mA I_F=50mA I_F=150mA		715 855 1000 1250	mV
Junction capacitance	C_j	V_R=0, f=1MHz		2	pF
Reveres recovery time	t_{rr}	I_F=I_R=10mA,I_{rr}=0.1×I_R, R_L=100Ω		4	ns

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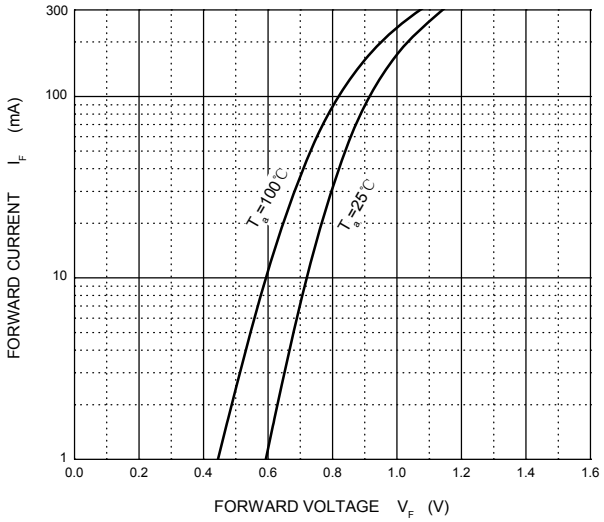
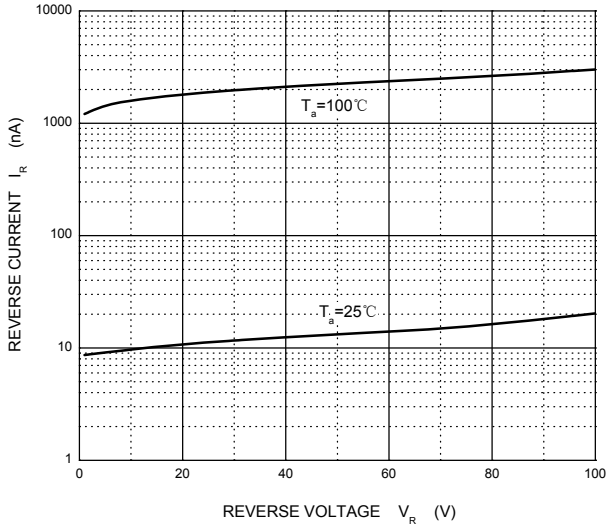
Typical Characteristics

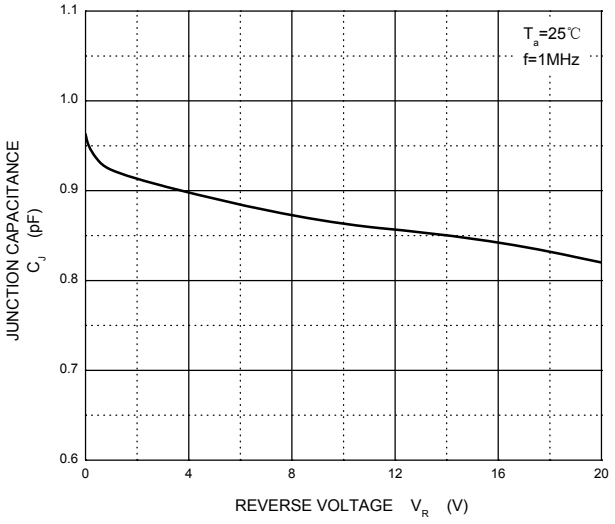
Forward Characteristics



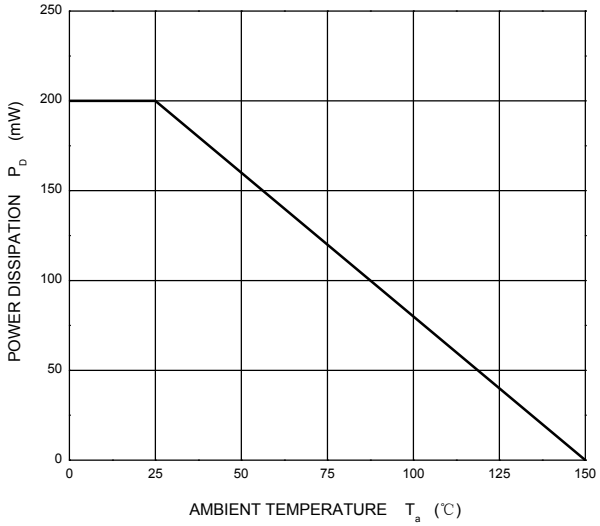
Reverse Characteristics



Capacitance Characteristics

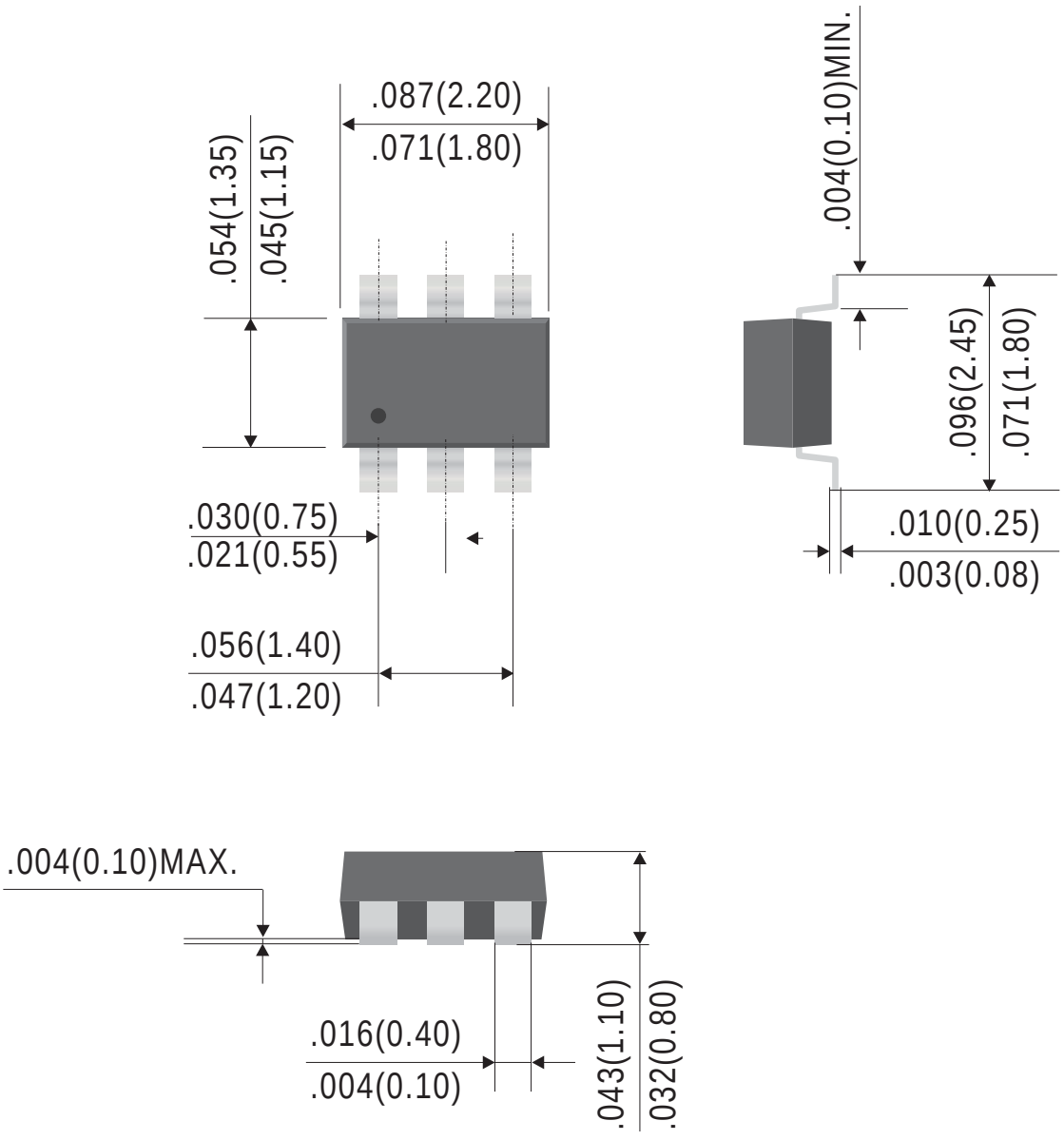


Power Derating Curve



Outline Drawing

SOT-363



Dimensions in inches and (millimeters)

Rev.D