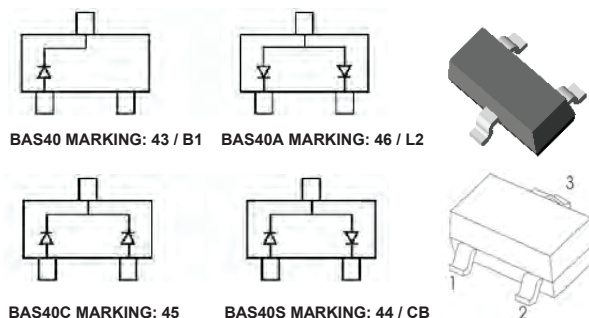


**200mW Plastic-Encapsulate Schottky Barrier Diodes**

PRIMARY CHARACTERISTICS	
P_D	200mW
V_{RRM}	40V
I_F	200mA
$V_{F(I_F=1mA)}$	380mV
$T_{J\ Max}$	125°C

FEATURES

- Low Forward Voltage
- Fast Switching
- Moisture Sensitivity Level 1

SOT-23 PACKAGE**MECHANICAL DATA**

- Case : Molded plastic, SOT-23
- Polarity : Shown above
- Terminals : Plated terminals, solderable per MIL-STD-750, Method 2026
- Epoxy : UL94-V0 rated flame retardant

Maximum Ratings @Ta=25°C

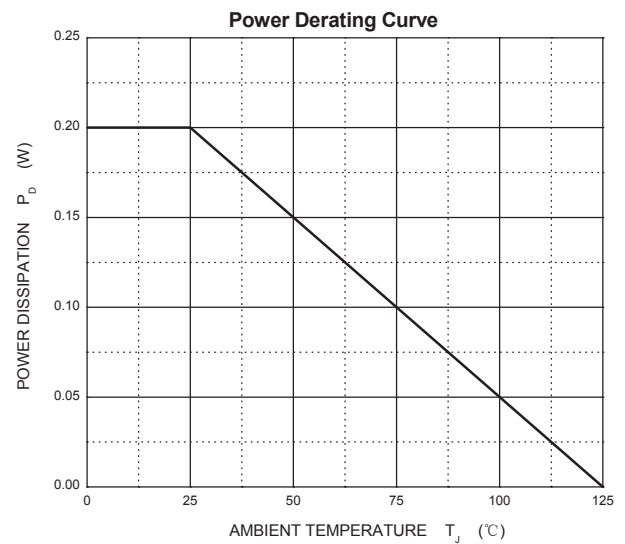
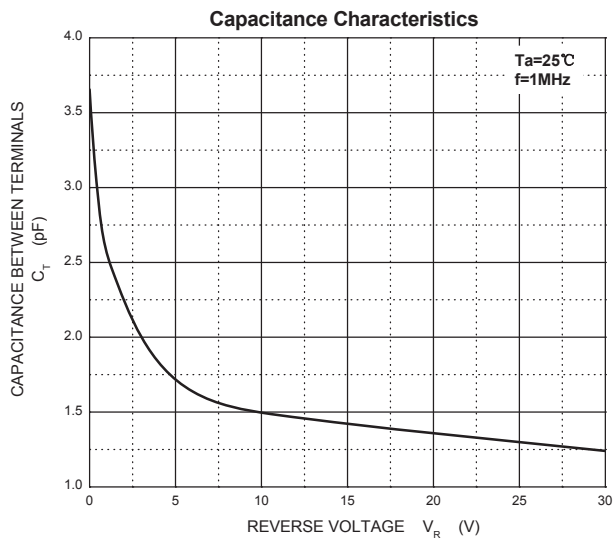
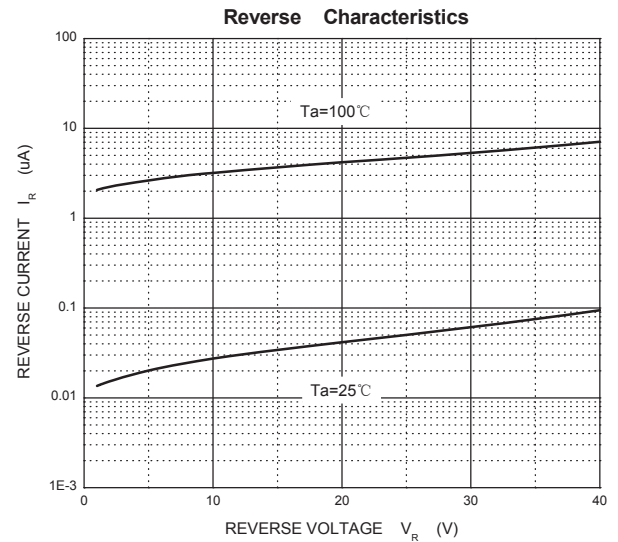
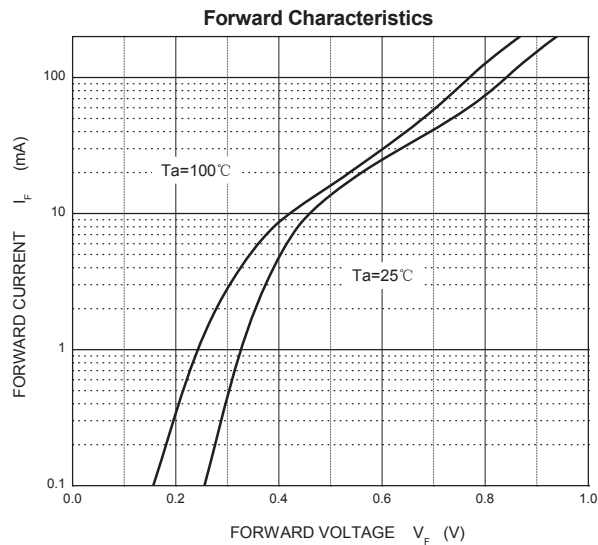
Parameter	Symbol	Limit	Unit
Peak repetitive peak reverse voltage	V_{RRM}	40	V
Working peak reverse voltage	V_{RWM}		
DC blocking voltage	V_R		
Forward continuous current	I_{FM}	200	mA
Power dissipation	P_D	200	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	500	°C/W
Operating temperature	T_J	-55~+125	°C
Storage temperature range	T_{STG}	-55~+150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R = 10\mu A$	40		V
Reverse voltage leakage current	I_R	$V_R = 30V$		200	nA
Forward voltage	V_F	$I_F = 1mA$ $I_F = 40mA$		380 1000	mV
Diode capacitance	C_D	$V_R = 0, f = 1MHz$		5	pF
Reverse recovery time	t_{rr}	$I_{rr} = 1mA, I_R = I_F = 10mA$ $R_L = 100\Omega$		5	ns



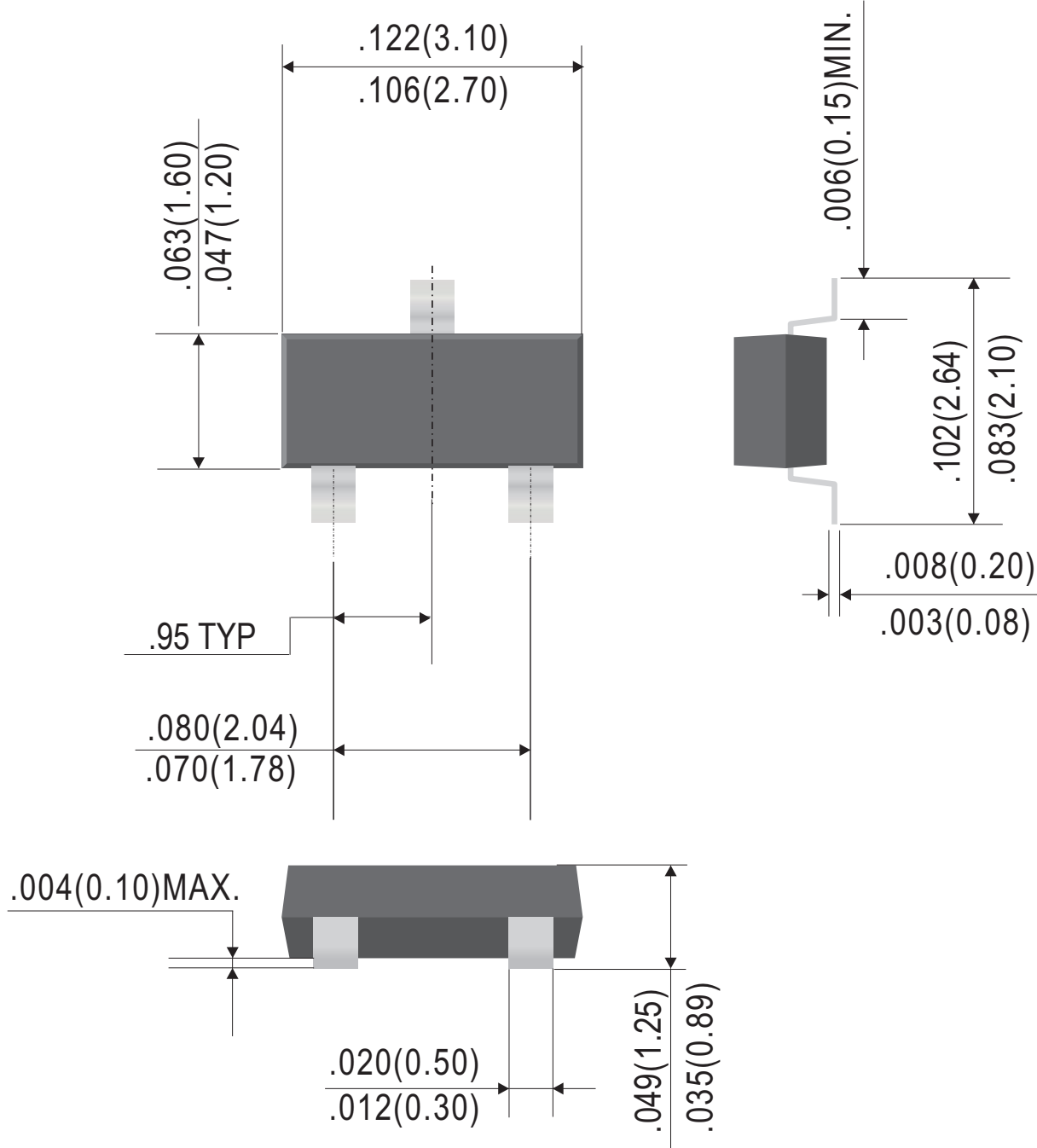
Typical Characteristics





Outline Drawing

SOT-23



Dimensions in inches and (millimeters)

Rev.E



Ordering Information:

Device PN	Marking ⁽⁴⁾	Packing
BAS40-T ⁽¹⁾ G ⁽²⁾ -WS ⁽³⁾	43/B1	Tape&Reel: 3Kpcs/Reel
BAS40A-T ⁽¹⁾ G ⁽²⁾ -WS ⁽³⁾	46/L2	Tape&Reel: 3Kpcs/Reel
BAS40C-T ⁽¹⁾ G ⁽²⁾ -WS ⁽³⁾	45	Tape&Reel: 3Kpcs/Reel
BAS40S-T ⁽¹⁾ G ⁽²⁾ -WS ⁽³⁾	44/CB	Tape&Reel: 3Kpcs/Reel

Note:

- (1) Packing code, Tape & Reel Packing
- (2) Packing code suffix "G" for RoHS product ; Packing code Suffix "H" for halogen free product
All materials and products supplied comply with the U.S. Toxic Substances Control Act statement, PBT Chemicals
- (3) Willas brand abbreviation, Label Type does not display
- (4) There may be additional marking, which relates to the lot trace code information (data code and vendor code), the logo or the environmental category on the device

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