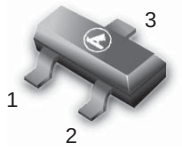
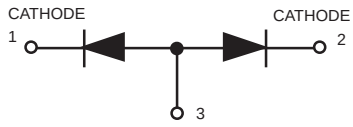
Comon Anode
Schottky Barrier Diode

BAS40-06LT1



CASE 318–08
SOT–23 (TO–236AB)

*** 40V SCHOTTKY BARRIER DIODES**



These Schottky barrier diodes are designed for high speed switching applications, circuit protection, and voltage clamping. Extremely low forward voltage reduces conduction loss. Miniature surface mount package is excellent for hand held and portable applications where space is limited.

- Extremely Fast Switching Speed
- Low Forward Voltage — 0.50 Volts (Typ) @ I_F = 10 mAdc
- Device Marking: L2

ORDERING INFORMATION

Device	Package	Shipping
BAS40-06HT1	SOT–23	3000/Tape & Reel

Preferred: devices are recommended choices for future use and best overall value.

MAXIMUM RATINGS (T_J = 150°C unless otherwise noted)

Rating	Symbol	Value	Unit
Reverse Voltage	V_R	40	Volts
Forward Power Dissipation	P_F		
@ T_A = 25°C		225	mW
Derate above 25°C		1.8	mW/°C
Operating Junction and Storage Temperature Range	T_J, T_{stg}	–55 to +150	°C

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Characteristic	Symbol	Min	Max	Unit
Reverse Breakdown Voltage (I_R = 10 µA)	$V_{(BR)R}$	40	—	Volts
Total Capacitance (V_R = 1.0 V, f = 1.0 MHz)	C_T	—	5.0	pF
Reverse Leakage (V_R = 25 V)	I_R	—	1.0	µAdc
Forward Voltage (I_F = 0.1 mAdc)	V_F	—	380	mVdc
Forward Voltage (I_F = 30 mAdc)	V_F	—	500	mVdc
Forward Voltage (I_F = 100 mAdc)	V_F	—	1.0	Vdc

BAS40–06LT1

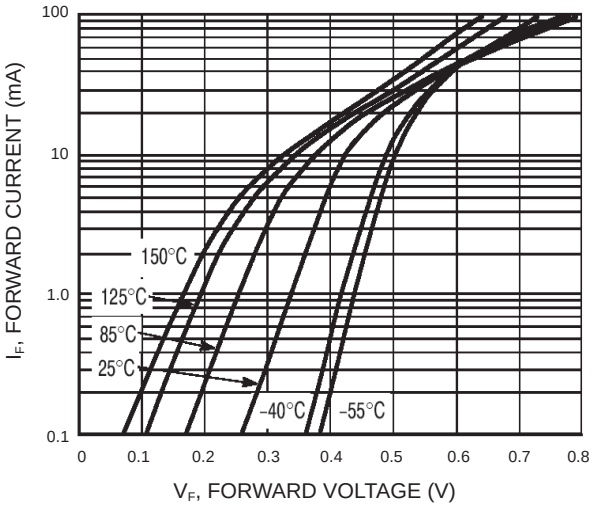


Figure 1. Typical Forward Current

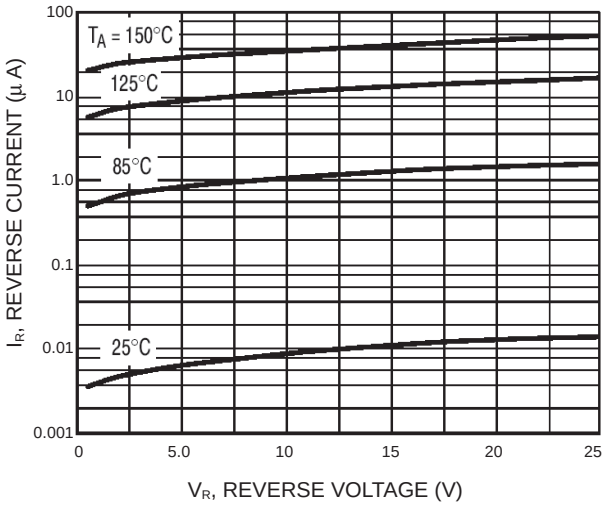


Figure 2. Reverse Current Versus Reverse Voltage

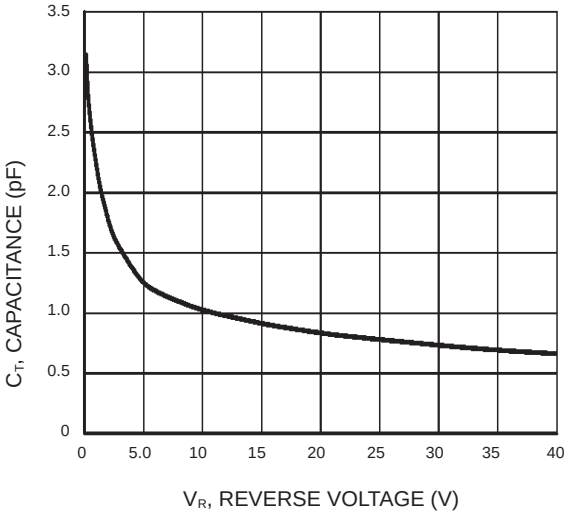


Figure 3. Typical Current