



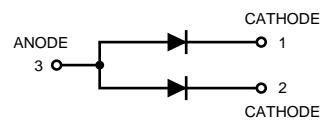
Schottky Barrier Diode

30 VOLTS
SCHOTTKY BARRIER
DETECTOR AND SWITCHING DIODE

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.

- * Halogen-free type
- * Lead free product
- * Extremely Fast Switching Speed
- * Low Forward Voltage-0.35 Volts (Typ) @ IF=10mAdc

BAT54AWGH



MAXIMUM RATINGS (TJ=125°C unless otherwise noted)

Rating	Symbol	Value	Unit
Reverse Voltage	VR	30	Volts
Power Dissipation @ TA=25°C	PD	200	mW
Forward Current (DC)	IF	200 Max	mA
Operating Junction Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	TSTG	-55 to +150	°C

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

Characteristic	Symbol	Min.	Typ.	Max.	Unit
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OFF CHARACTERISTICS

Reverse Breakdown Voltage (IR=10 uAdc)	V(BR)	30	-	-	Volts
Forward Voltage (IF=0.1 mAdc) (IF=1.0 mAdc) (IF=10 mAdc) (IF=30 mAdc) (IF=100 mAdc)	VF	- - - - -	0.22 0.29 0.35 0.41 0.52	0.24 0.32 0.40 0.50 1.00	Vdc
Reverse Leakage (VR=25 Vdc)	IR	-	0.5	2.0	uAdc
Diode Capacitance (VR=1.0, f=1.0MHz)	CJ	-	7.6	10	pF
Reverse Recovery Time (IF=IR=10 mAdc, IR(REC)=1.0mAdc)	trr	-	-	5.0	nS



FIGURE 1. RECOVERY TIME EQUIVALENT TEST CIRCUIT

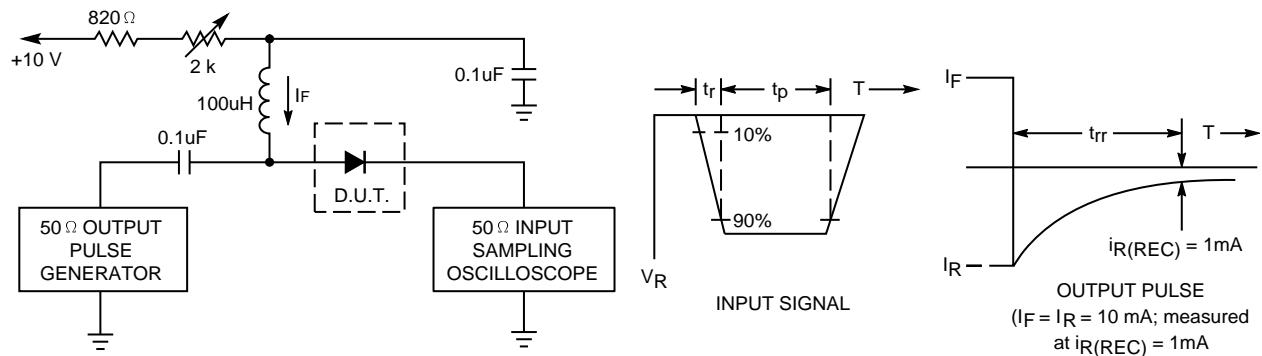


FIGURE 2. FORWARD VOLTAGE

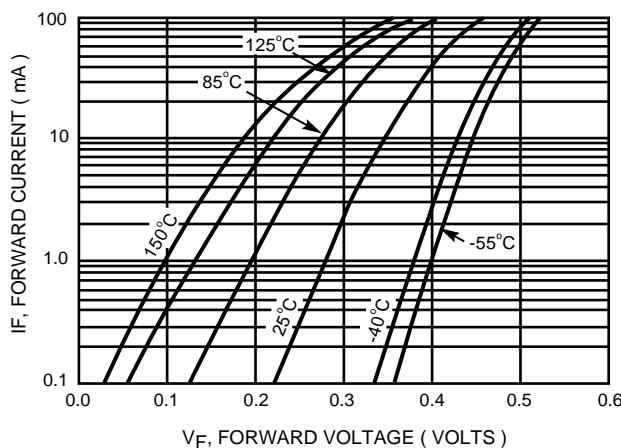


FIGURE 3. LEAKAGE CURRENT

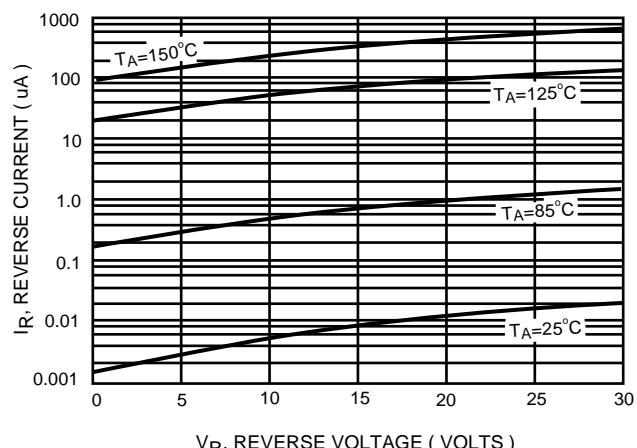
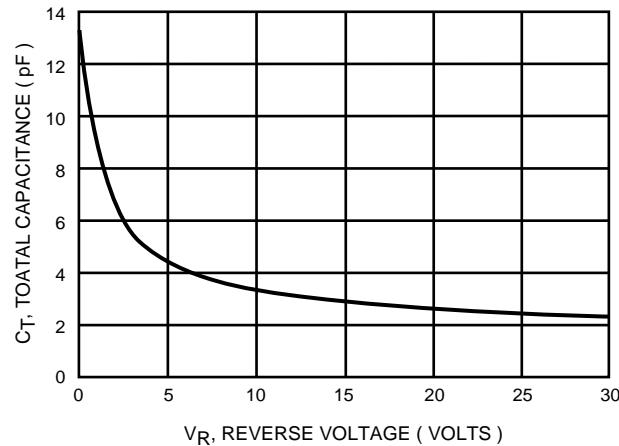


FIGURE 4. TOTAL CAPACITANCE





CASE DRAWINGS

SOT-323

Unit : mm

