

Schottky Barrier Diode

Lead free product

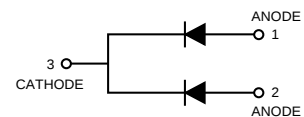
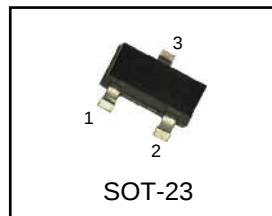
Halogen-free type

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.

◆ Extremely Fast Switching Speed

BAT54RCGH



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

Rating	Symbol	Value	Unit
Reverse Voltage	VR	30	Volts
Forward Power Dissipation @ TA=25°C Derate above 25°C	PF	225 1.8	mW mW / °C
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
Reverse Leakage (VR=25V)	IR	-	-	2	uA
Forward Voltage (IF=0.1mAdc) (IF=1.0mAdc) (IF=10mAdc) (IF=30mAdc) (IF=100mAdc)	VF	- - - - -	- - - - -	0.24 0.32 0.40 0.50 1.00	Vdc
Total Capacitance (VR=1.0V, f=1.0MHZ)	CJ	-	-	10	pF
Reverse Recovery Time (IF=IR=10 mAdc, IR(REC)=1.0mAdc)	trr	-	-	5.0	nS



FIGURE 1. RECOVERY TIME EQUIVALENT TEST CIRCUIT

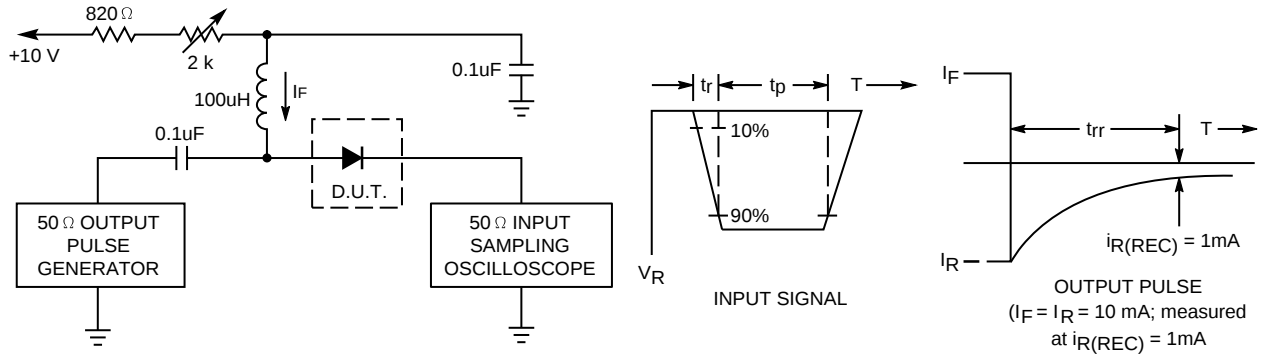


FIGURE 2. FORWARD VOLTAGE

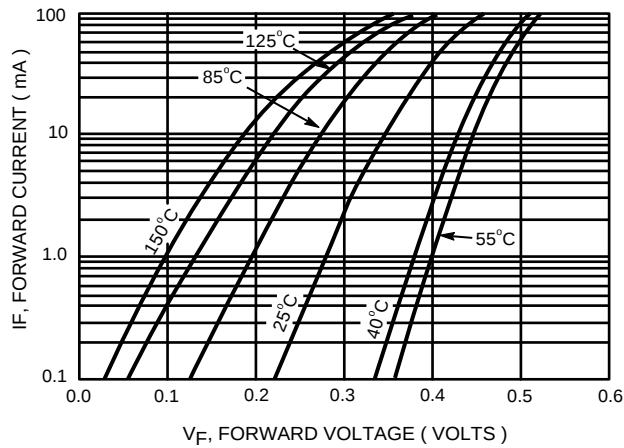


FIGURE 3. LEAKAGE CURRENT

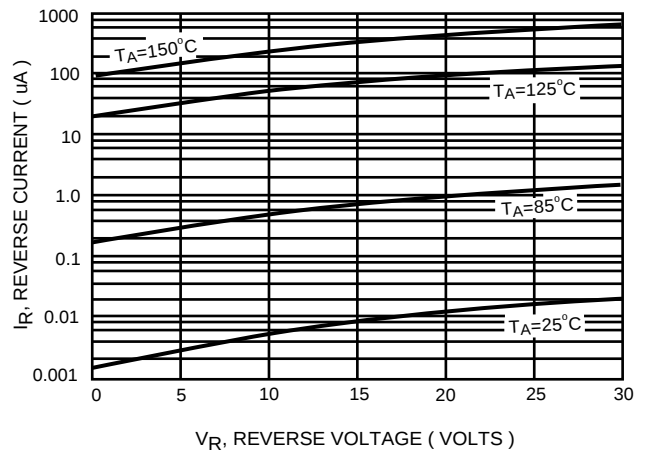


FIGURE 4. TOTAL CAPACITANCE

