



FUKUCOM COMPANY LTD.

福 靈 有 限 公 司

FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,
KWUN TONG, KOWLOON, HONG KONG.

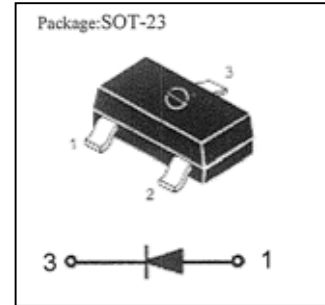
TEL: 852-2790 0314 FAX: 852-2790 0206

BAS16LT1

Dual Switching Diode

Fast Switching Speed

High Conductance



Absolute Maximum Ratings Ta=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{RM}	Non-Repetitive Peak Reverse Voltage	100	V
V _{RRM}	Peak Repetitive Reverse Voltage	75	V
V _{RWM}	Working Peak Reverse Voltage DC		
V _R	Blocking Voltage		
V _{R(RMS)}	RMS Reverse Voltage	53	V
I _F	Continuous Forward Current	200	mA
I _{FM}	Peak Forward Surge Current	500	mA
P _{tot}	Power Dissipation	350	MW
	Derate Above 25°C	2.8	mW/°C
T _j	Junction Temperature	150	°C
T _s	Storage Temperature range	-65~+150	°C

Electrical Characteristics Ta=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Units
V _F	Forward Voltage	I _F = 1mA			715	mV
		I _F = 10mA			855	
		I _F = 50mA			1.0	
		I _F = 150mA			1.25	
I _R	Leakage Current	V _R = 75V			1.0	uA
		V _R = 75V T _j =150°C			50	
		V _R = 25V T _j =150°C			30	
C _j	Capacitance	V _F = 0V, f=1MHz			2	pF
T _{rr}	Reverse Recovery Time	I _F =10mA, I _{RR} =1.0mA V _F =6.0V, R _L =100Ω			6	ns

Note: Diode on Ceramic Substrate 10mm x 8.0mm x 0.7mm

Marking : A6



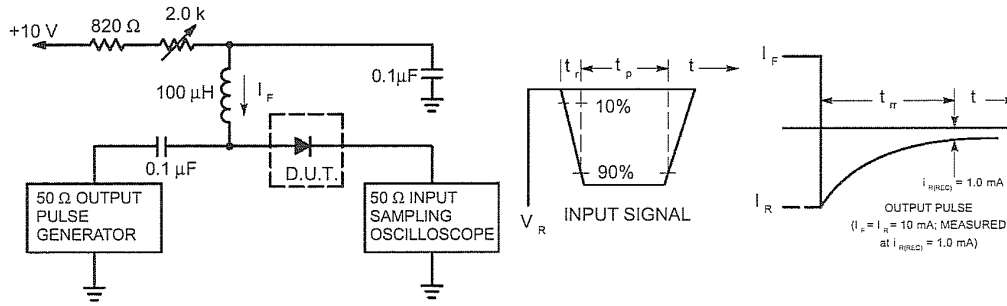
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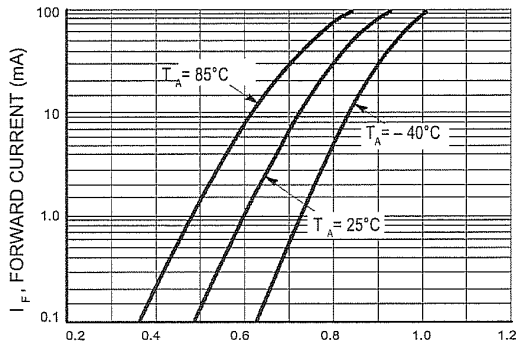
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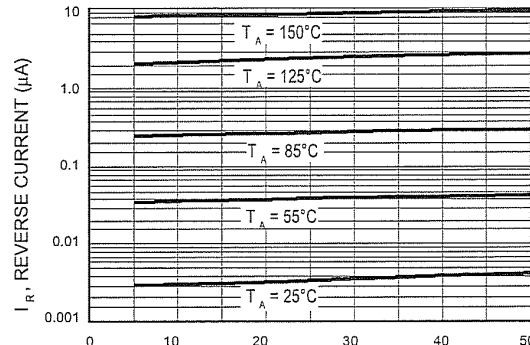
- Notes: 1. A 2.0 kΩ variable resistor adjusted for a Forward Current (I_F) of 10 mA.
- 2. Input pulse is adjusted so $I_{R(\text{peak})}$ is equal to 10 mA.
- 3. $t_p \gg t_r$

Figure 1. Recovery Time Equivalent Test Circuit



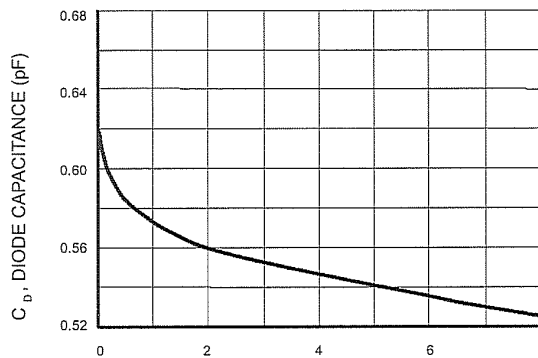
V_F , FORWARD VOLTAGE (VOLTS)

Figure 2. Forward Voltage



V_R , REVERSE VOLTAGE (VOLTS)

Figure 3. Leakage Current



V_R , REVERSE VOLTAGE (VOLTS)

Figure 4. Capacitance