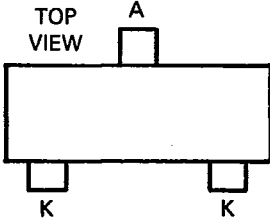


SOT23 (continued)

DEVICE NO. **BAW56**  
 SMALL-SIGNAL DUAL SWITCHING DIODES  
 (COMMON ANODE)



- Common anode dual diode specially designed for general purpose and high-speed switching.

Device	Marking
BAW56	A1

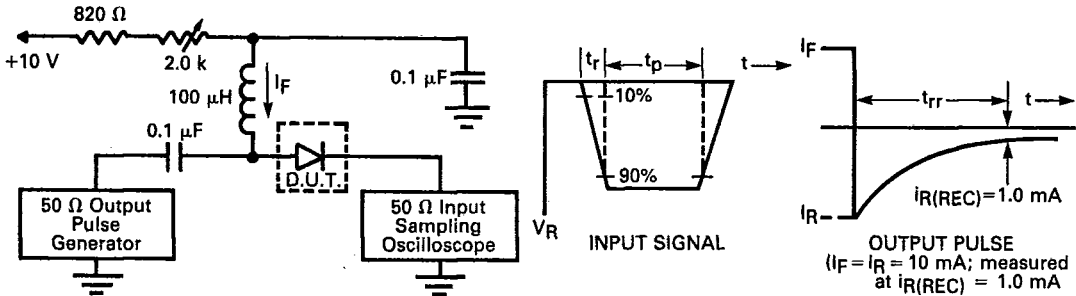
MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Continuous Reverse Voltage	$V_R$	70	Vdc
Peak Forward Current	$I_F$	200	mAdc
Peak Forward Surge Current	$I_{FM(surge)}$	200	mAdc

ELECTRICAL CHARACTERISTICS ( $T_A = 25^\circ\text{C}$  unless otherwise noted)

Parameter	Test Conditions	Min	Max	Unit
$V_F$	$I_F = 1.0 \text{ mAdc}$	—	715	mVdc
	$I_F = 10 \text{ mAdc}$	—	855	
	$I_F = 50 \text{ mAdc}$	—	1100	
	$I_F = 100 \text{ mAdc}$	—	1300	
$I_R$	$V_R = 25 \text{ Vdc}, T_J = 150^\circ\text{C}$	—	30	$\mu\text{Adc}$
	$V_R = 70 \text{ Vdc}$	—	2.5	
	$V_R = 70 \text{ Vdc}, T_J = 150^\circ\text{C}$	—	50	
CD	$V_R = 0, f = 1.0 \text{ MHz}$	—	2.5	pF
$t_r$	$I_F = I_R = 10 \text{ mAdc}, I_{R(REC)} = 1.0 \text{ mAdc}$ (Figure 1)	—	6.0	ns
$V_{(BR)}$	$I_{(BR)} = 100 \mu\text{Adc}$	70	—	Vdc

FIGURE 1 — Recovery Time Equivalent Test Circuit



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