

### SWITCHING DIODE : SC-59

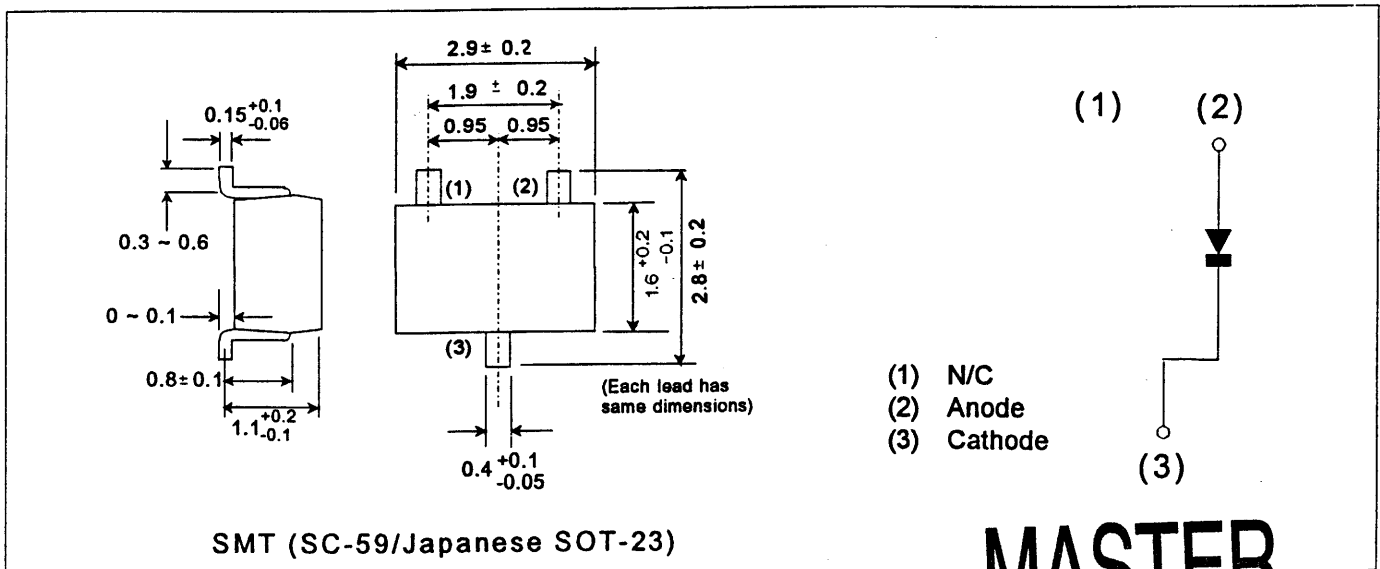
#### ABSOLUTE MAXIMUM RATINGS: (TA=25°C)

DC reverse voltage	$V_R$ .....	100V
Peak reverse voltage	$V_{RM}$ .....	100V
Average rectified current	$I_O$ .....	100mA
Peak forward current	$I_{FM}$ .....	300 mA
Surge current (1 $\mu$ s)	$I_{surge}$ .....	4A
Power dissipation (mounted)	$P_d$ .....	300mW
Junction temperature	$T_j$ .....	150°C
Storage temperature range	$T_{stg}$ .....	-55 ~ 150°C
Rated input/output frequency	$f$ .....	100 MHz

#### ELECTRICAL CHARACTERISTICS: (Ta = 25°C, Unless Otherwise Specified)

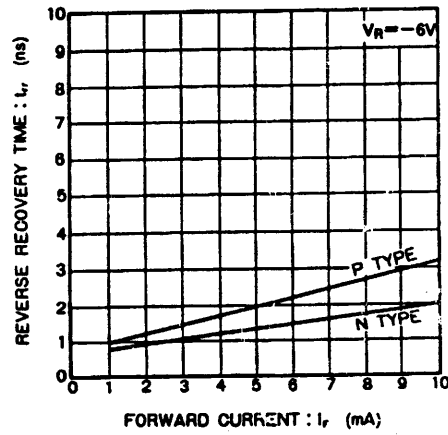
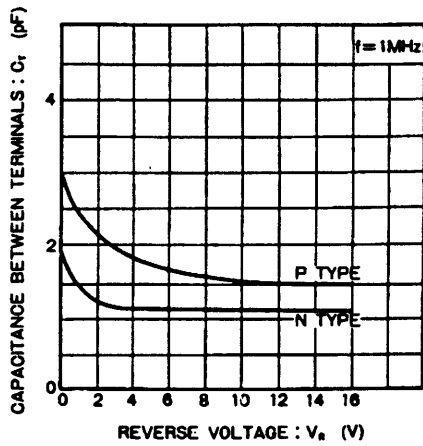
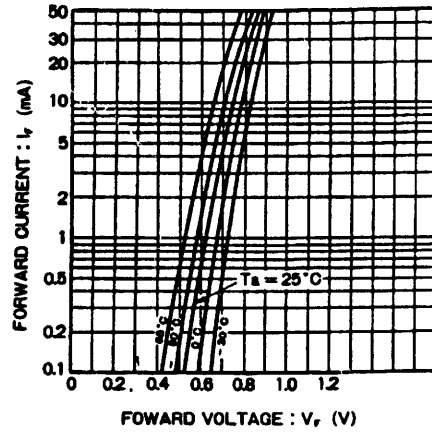
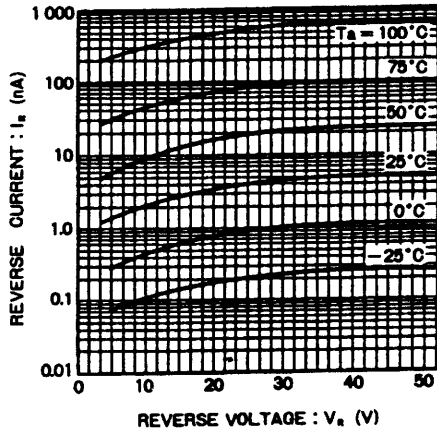
Parameter	Test Condition	Min.	Typ.	Max.	Unit
$BV_R$	$I_R = 100 \mu A$	100	145	-	V
$I_R$	$V_R = 20 V$	-	7	25	nA
$I_R$	$V_R = 20 V, T_A = 150^\circ C$	-	1.5	50	$\mu A$
$I_R$	$V_R = 80 V$	-	15	500	nA
$V_F$	$I_F = 10 mA$	-	0.73	1.0	V
$V_F$	$I_F = 50 mA$	-	0.85	1.1	V
$V_F$	$I_F = 100 mA$	-	0.93	1.2	V
$C_T$	$V_R = 0 V, f = 1.0 MHz$	-	2.25	4.0	pF
$C_T$	$V_R = 6 V, f = 1.0 MHz$	-	1.30	3.5	pF
$t_{rr}$	$V_R = 6 V, I_F = 10 mA, R_L = 50 Ohms$	-	2.0	4.0	ns

#### DIMENSIONS: (Unit mm)

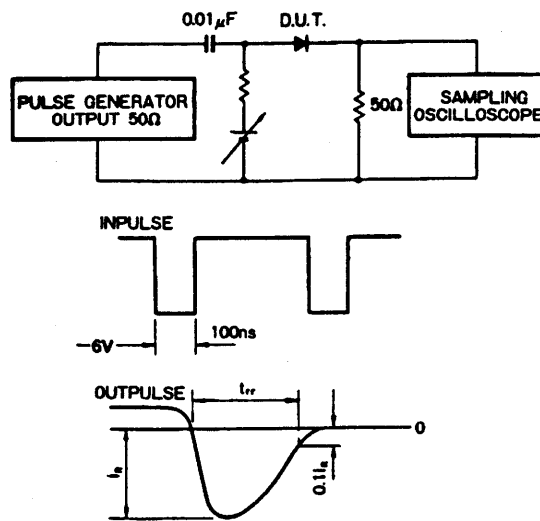
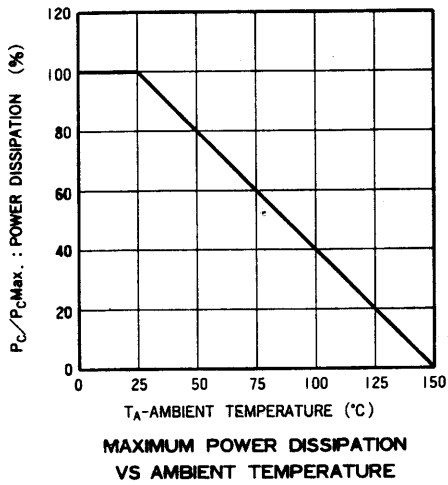


# MASTER

Packaging Availability: T146 = 3,000 pc/reel  
 T246 = 10,000 pc/reel



Note: P Type (DAP Devices)  
N Type (DAN Devices)



MASTER