SILICON CONTROLLED RECTIFIER (SCR)

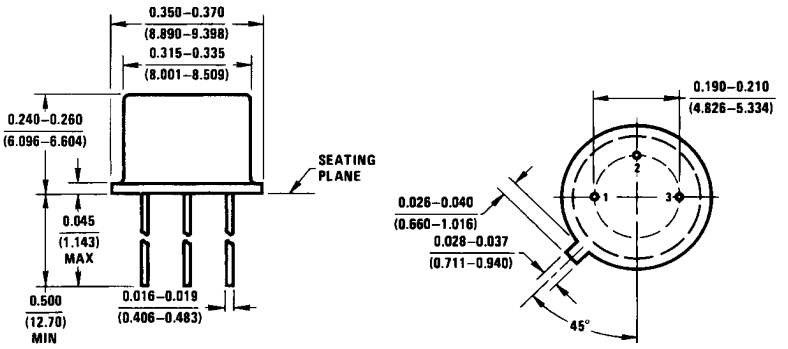
DESCRIPTION:

The **2N1596** is a Medium Current SCR for General Purpose Power Control Applications.

MAXIMUM RATINGS

I_C	1.6 A (RMS)
V	100 V
P_{DISS}	P_{GM} = 100 mW $P_{G(AVG)}$ = 10 mW
T_J	-65 °C to +125 °C
T_{STG}	-65 °C to +125 °C

PACKAGE STYLE TO-39



1 = CATHODE 2 = GATE 3 = ANODE

CHARACTERISTICS T_C = 25 °C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
I_{DRM}/I_{RRM}	V_{DRM}/V_{RRM} = 100 V			10	µA
I_{DRM}/I_{RRM}	V_{DRM}/V_{RRM} = 100 V T_C = 125 °C			6.0	mA
I_{GT}	V_D = 7.0 V R_L = 12 Ω			10	mA
V_{GT}	V_D = 7.0 V R_L = 12 Ω			3.0	V
	T_C = 125 °C	0.2			
I_H	V_D = 7.0 V		5.0		mA
V_{TM}	I_{TM} = 1.0 A			2.0	V
I_{TSM}	60 Hz (NON REPETITIVE) T_J = 125 °C			15	A
t_{gt}	TURN ON TIME		0.8		µS
t_q	TURN OFF TIME		10		µS