

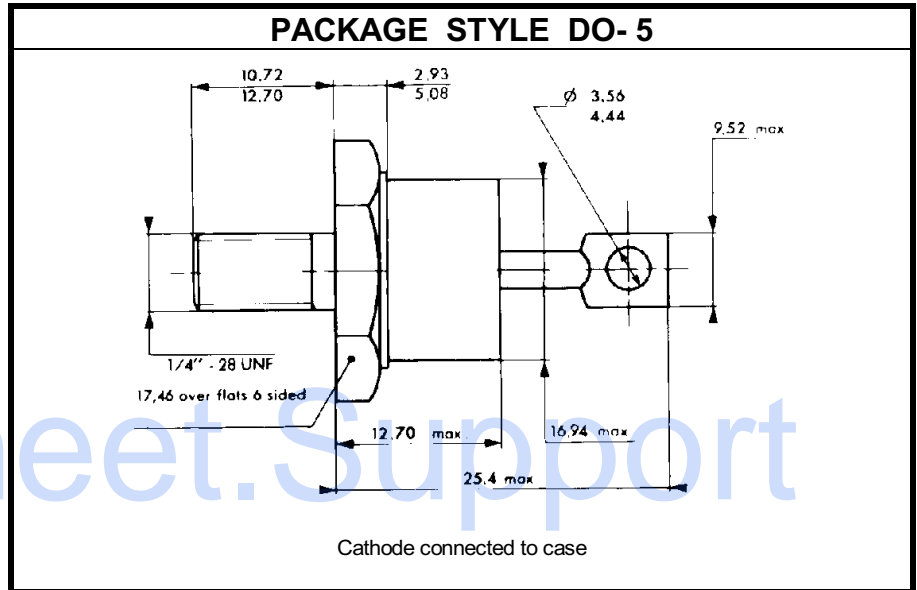
# SILICON RECTIFIER

**DESCRIPTION:**

The **1N1183A** is a General Purpose Rectifier Designed for Power Supply Applications.

**MAXIMUM RATINGS**

$I_o$	40 A (AVG) @ $T_C = 150\text{ }^\circ\text{C}$
$V_{RWM}$	50 V
$T_J$	-65 to +200 $^\circ\text{C}$
$T_{STG}$	-65 to +200 $^\circ\text{C}$
$\theta_{JC}$	1.1 $^\circ\text{C/W}$


**CHARACTERISTICS**  $T_C = 25\text{ }^\circ\text{C}$ 

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
$I_R$	$V_R = 50\text{ V}$ $T_C = 150\text{ }^\circ\text{C}$		1.0	2.5	mA
$V_F$	$I_F = 126\text{ A}$			1.3	V
$I_{FSM}$	$\frac{1}{2}$ CYCLE (50 Hz) $\frac{1}{2}$ CYCLE (60 Hz)			765 800	A
$I^2t$	$t = 10\text{ mS}$ $T_C = 150\text{ }^\circ\text{C}$			2900	$\text{A}^2\text{S}$
$I^2t$	$t = 8.3\text{ mS}$ $T_C = 150\text{ }^\circ\text{C}$			2650	$\text{A}^2\text{S}$