



ELECTRONICS, INC.
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**NTE5538
Silicon Controlled Rectifier (SCR)
800V, 50 Amp, TO218 Isolated**

Description:

The NTE5538 general purpose SCR is suited for power supplies up to 400Hz on resistive or inductive loads.

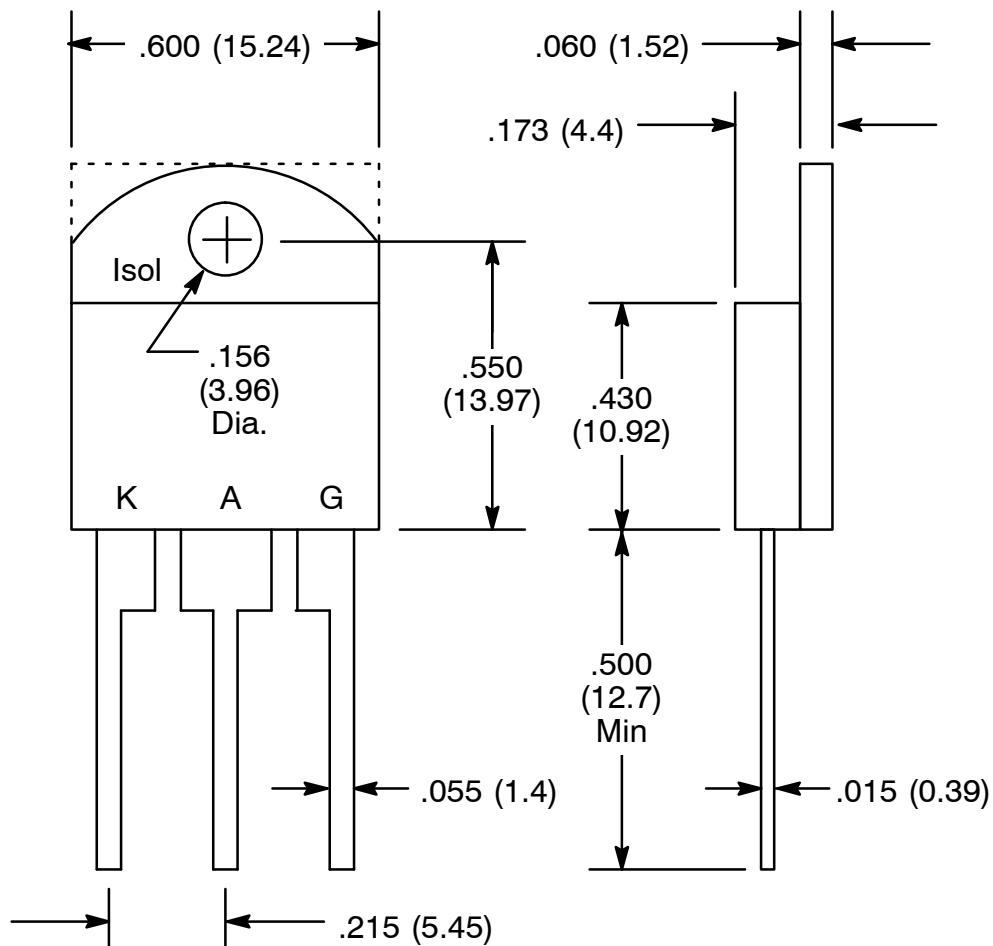
Applications:

- Motor Control
 - Overvoltage Crowbar Protection
 - Capacitive Discharge Ignition
 - Voltage Regulation
 - Welding Equipment
 - Capacitive Filter Soft Start (Inrush Current Control)

Absolute Maximum Ratings: ($T_J = +25^\circ\text{C}$ unless otherwise specified)

Electrical Characteristics: ($T_J = +25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Gate Trigger Current	I_{GT}	$V_D = 12\text{V}$, $R_L = 30\Omega$	-	-	60	mA
Gate Trigger Voltage	V_{GT}		-	-	1.3	V
Gate Non-Trigger Voltage	V_{GD}	$T_J = +125^\circ\text{C}$, $V_D = 800\text{V}$, $R_L = 3.3\text{k}\Omega$	0.2	-	-	V
Holding Current	I_H	$I_T = 500\text{mA}$, Gate Open	-	-	180	mA
Latching Current	I_L	$I_G = 1.2I_{GT}$	-	-	90	mA
Critical Rate of Rise of Off-State Voltage	dv/dt	$T_J = +125^\circ\text{C}$, $V_{DRM} = 536\text{V}$, Gate Open	100 0	-	-	V/ μs
Peak On-State Voltage	V_{TM}	$I_{TM} = 150\text{A}$, $t_p = 380\mu\text{s}$	-	-	1.6	V
Forward Leakage Current	I_{DRM}	$V_{DRM} = 800\text{V}$	-	-	5	μA
Reverse Leakage Current	I_{RRM}	$V_{DRM} = 800\text{V}$, $T_J = +125^\circ\text{C}$	-	-	4	mA



NOTE: Dotted line indicates that case may have square corners.

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