

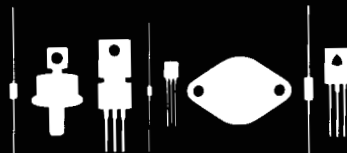
Central Semiconductor Corp.

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Central<sup>TM</sup> Semiconductor Corp.

145 Adams Avenue  
Hauppauge, New York 11788



1N4454

SILICON SWITCHING DIODE

JEDEC DO-35 CASE

## DESCRIPTION

The CENTRAL SEMICONDUCTOR 1N4454 type is a high speed Silicon Switching Diode designed for computer and general purpose applications.

## MAXIMUM RATINGS ( $T_A = 25^\circ\text{C}$ )

	<u>SYMBOL</u>		<u>UNITS</u>
Peak Repetitive Reverse Voltage	$V_{RRM}$	75	V
Average Forward Current	$I_O$	150	mA
Forward Steady-State Current	$I_F$	200	mA
Peak Forward Surge Current (1.0 $\mu\text{s}$ pulse)	$I_{FSM}$	4000	mA
Power Dissipation	$P_D$	500	mW
Operating and Storage Junction Temperature	$T_J, T_{stg}$	-65 to +200	$^\circ\text{C}$

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

<u>SYMBOL</u>	<u>TEST CONDITIONS</u>	<u>MIN</u>	<u>MAX</u>	<u>UNITS</u>
$BV_R$	$I_R = 5.0\mu\text{A}$	75		V
$I_R$	$V_R = 50\text{V}$		100	nA
$I_R$	$V_R = 50\text{V}, T_A = 150^\circ\text{C}$		100	$\mu\text{A}$
$V_F$	$I_F = 10\text{mA}$		1.0	V
$C_T$	$V_r = 0, f = 1.0\text{MHz}$		2.0	pF
$t_{rr}$	$V_R = 6.0\text{V}, I_F = 10\text{mA}, I_{rr} = 1.0\text{mA}, R_L = 100\Omega$		2.0	ns
$t_{rr}$	$I_F = I_R = 10\text{mA}, I_{rr} = 1.0\text{mA}$		4.0	ns

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