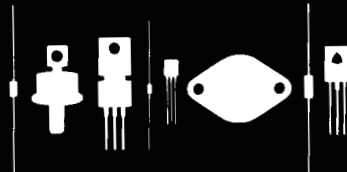


Central Semiconductor Corp.
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 145 Adams Avenue
 Hauppauge, New York 11788



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 μs 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	μA
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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