

CentralTM Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

1N2154 THRU 1N2160
1N2154R THRU 1N2160R

SILICON RECTIFIER
25 AMPS, 50 TO 600 VOLTS

JEDEC DO-5 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 1N2154 Series Diffused Junction Silicon Rectifiers are designed for general purpose rectifier applications. Normal polarity is cathode to case. For reverse polarity and R suffix to Part No.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS ($T_C=25^{\circ}\text{C}$ unless otherwise noted)

		1N2154	1N2155	1N2156	1N2157	1N2158	1N2159	1N2160	
	SYMBOL	1N2154R	1N2155R	1N2156R	1N2157R	1N2158R	1N2159R	1N2160R	UNIT
Peak Reverse Voltage	PRV	50	100	200	300	400	500	600	V
DC Blocking Voltage	V_R	50	100	200	300	400	500	600	V
RMS Reverse Voltage	$V_R(\text{RMS})$	35	70	140	210	280	350	420	V
Average Forward Current ($T_C=145^{\circ}\text{C}$)	I_O	25	25	25	25	25	25	25	A
Peak Surge Current	I_{FSM}	400	400	400	400	400	400	400	A
Max Forward Voltage Drop	V_{FM}	0.6	0.6	0.6	0.6	0.6	0.6	0.6	V
Max Forward Voltage Drop ($I_T=40\text{A}$)	V_{FM}	1.1	1.1	1.1	1.1	1.1	1.1	1.1	V
Max Leakage Current*	I_R	5.0	4.5	4.0	3.5	3.0	2.5	2.0	mA
Max Thermal Resistance	θ_{JC}	1.5	1.5	1.5	1.5	1.5	1.5	1.5	$^{\circ}\text{C}/\text{W}$
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 TO +200							$^{\circ}\text{C}$

*Full Cycle (60Hz) Average, $T_C=145^{\circ}\text{C}$