

1N5400K THRU 1N5408K

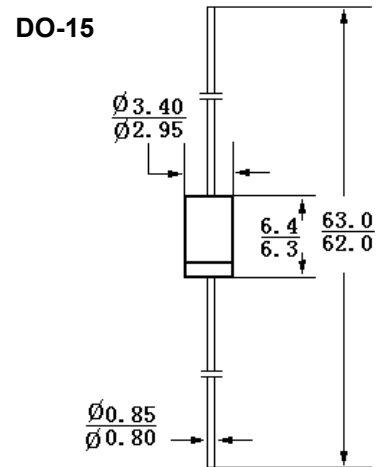
SILICON RECTIFIERS

Reverse Voltage – 50 to 1000 Volts

Forward Current – 3.0 Amperes

Features

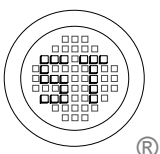
- Case: Molded plastic, DO-15.
- Weight: 0.4g.



Dimensions in mm

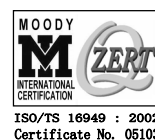
Absolute Maximum Ratings and Characteristics

	Symbols	1N 5400K	1N 5401K	1N 5402K	1N 5403K	1N 5404K	1N 5405K	1N 5406K	1N 5407K	1N 5408K	Units
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	300	400	500	600	800	1000	Volts
Maximum RMS voltage	V_{RMS}	50	100	200	300	400	500	600	800	1000	Volts
Maximum DC blocking voltage	V_{DC}	50	100	200	300	400	500	600	800	1000	Volts
Maximum average forward rectified current R-load $T_A = 50^\circ\text{C}$	I_{FAV}	3									A
Repetitive peak forward current $f > 15\text{Hz}$	I_{FRM}	20									A
Peak forward surge current 50Hz half sine-wave $T_A = 25^\circ\text{C}$	I_{FSM}	100									A
Maximum forward voltage at $I_F = 3\text{A}$, $T_J = 25^\circ\text{C}$	V_F	1.2									V
Maximum Leakage current at $V_R = V_{RRM}$, $T_J = 25^\circ\text{C}$	I_R	10									μA
Rating for fusing $t < 10\text{ms}$ $T_A = 25^\circ\text{C}$	i^2t	50									A^2s
Maximum full load reverse current full cycle average 5" (12.5mm) lead length at $T_L = 105^\circ\text{C}$	$I_{R(av)}$	0.5									μA
Maximum thermal resistance junction to ambient air	R_{thA}	45									K/W
Operating and storage temperature range	T_J, T_S	-50 to +175									$^\circ\text{C}$



SEMTECH ELECTRONICS LTD.

(Subsidiary of Semtech International Holdings Limited, a company
listed on the Hong Kong Stock Exchange, Stock Code: 724)



Dated : 08/05/2004