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Silicon

## Rectifiers

### Medium Current Junction Rectifier

electrical ratings and specifications (60 cps., Resistive or Inductive Load)

Max. Allow. Transient Peak Reverse Voltage (Non-Recurrent 5 millisecond max. duration)

	IN2154	IN2155	IN2156	IN2157	IN2158	IN2159	IN2160
Max. Allow. Peak Reverse Voltage (Repetitive)	100	200	350	450	600	700	800 volts

Max. Allow. RMS Voltage

	50	100	200	300	400	500	600 volts
Max. Allow. Forward Current (Single Phase — 145°C stud temp.)	35	70	140	210	280	350	420 volts

Max. Allow. Peak One-Cycle Surge Current

	50	100	200	300	400	500	600 volts
I <sup>t</sup> t Ratings (for fusing) (for t = .0008 < t < .0083 seconds)	25	40	60	80	100	120	140 amperes

Max. Full Load Voltage Drop (Full Cycle Average — 145°C stud temp.)

	50	100	200	300	400	500	600 volts
Max. Leakage Current at Full Load (Full Cycle Average, Single Phase 145°C stud temp.)	250	400	600	800	1000	1200	1400 milliamperes

Max. Thermal Resistance (junction to stud)

	5	4.5	4	3.5	3	2.5	2 ma
Junction Operating and Storage Temperature Range	—	—	—	—	—	—	—

Max. Allow. Forward Current at Full Load (Single Phase 145°C stud temp.)

	50	100	200	300	400	500	600 volts
Max. Thermal Resistance (junction to stud)	5	4.5	4	3.5	3	2.5	2 ma

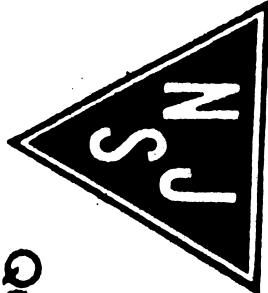
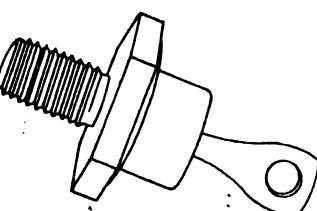
Max. Allow. Peak Reverse Voltage (Repetitive)

	100	200	350	450	600	700	800 volts
Max. Allow. Forward Current (Single Phase — 145°C stud temp.)	35	70	140	210	280	350	420 volts

\*Maximum voltage apply with a heat sink thermal resistance of 12°C/watt or less at maximum rated junction temperature.

\*\*For RMS surge current ratings in sub-cycle region (less than one cycle) as a function of t, see Curve IX.

**IN2154-60,R**



Quality Semi-Conductors