ELECTRONICS, INC.
44 FARRAND STREET
BLOOMFIELD, NJ 07003
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1N4245 thru 1N4249
General Purpose Silicon Rectifier
DO–41 Type Package

Absolute Maximum Ratings: (T_A = +25°C unless otherwise specified)

Working Peak Reverse Voltage (T_J = –65° to +175°C), V_{RWM}
- 1N4245 . . . . . 200V
- 1N4246 . . . . . 400V
- 1N4247 . . . . . 600V
- 1N4248 . . . . . 800V
- 1N4249 . . . . . 1000V

DC Blocking Voltage (T_J = –65° to +175°C), V_R
- 1N4245 . . . . . 200V
- 1N4246 . . . . . 400V
- 1N4247 . . . . . 600V
- 1N4248 . . . . . 800V
- 1N4249 . . . . . 1000V

Average Forward Current. I_O
- T_A = +55°C 1A
- T_A = +25°C 2.5A

Non–Repetitive Peak Surge Current (0.0083sec, Half Sine Wave), I_{FSM} 25A

Non–Repetitive Peak Surge Current (0.001sec, Half Sine Wave), I_{FSM}
- Full Load, T_J = +160°C 90A
- No Load, T_A = +25°C 100A

I^2t, RMS for Fusing (0.001 to 0.01sec), I^2t . . . . . $4A^2sec$

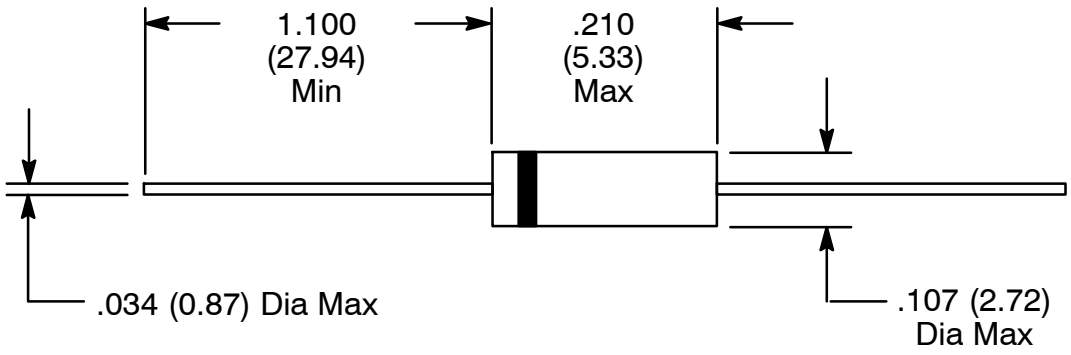
Peak Non–Repetitive Reverse Power Rating (20μs, Half Sine wave, T_J = Max), P_{RM} 1000W

Operating Junction Temperature Range, T_J . . . . . –65° to +160°C

Storage Temperature Range, T_{stg} . . . . . –65° to +200°C

Electrical Characteristics: (T_A = +25°C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage Drop	V_F	I_F = 1A, T_A = +55°C	–	–	1.2	V
Reverse Current	I_{RM}	V_{RRM} = Rated Voltage, T_J = +25°C	–	–	1.0	μA
		V_{RRM} = Rated Voltage, T_J = +125°C	–	–	25	
Reverse Recovery Time	t_{rr}		–	2.5	5.0	μs



Color Band Denotes Cathode