

TVS Auto Rectifier, 50A

Features

- Low Leakage
- Low Forward Voltage Drop
- Low Cost
- High Surge Current Capability

Mechanical Characteristics

- **Encap:** Epoxy Sealed
- **Lead:** Plated Lead, Solderable
- **Mounting:** Press Fit
- Weight: 6.5 grams (approx.)

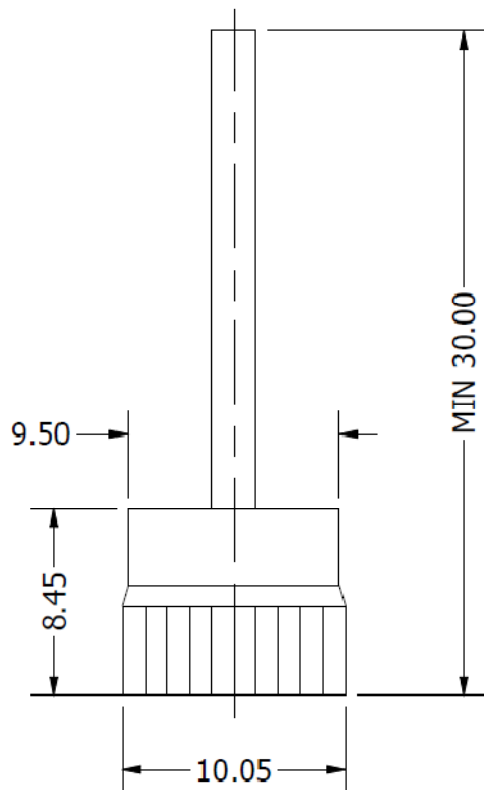


PRESS-FIT DIODE

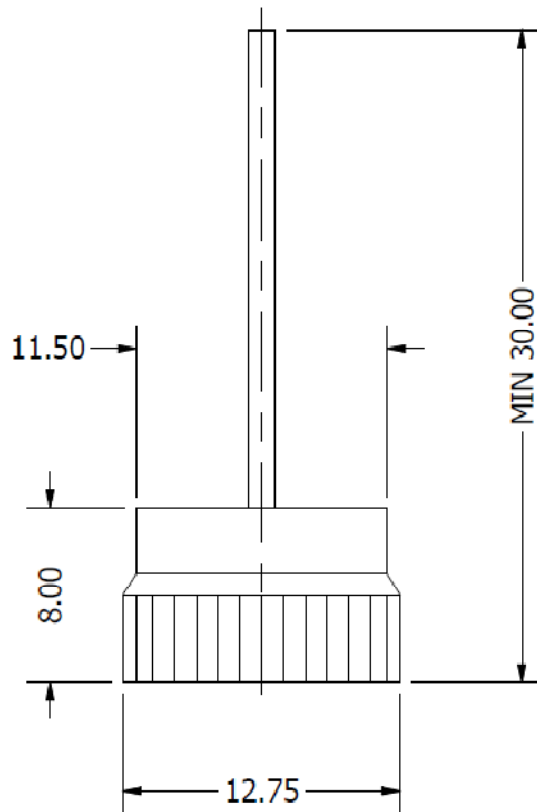
Electrical Characteristics ($T_A = 25^{\circ}\text{C}$ unless otherwise specified)

Parameter		Symbol	NP5020(R)	NP5024(R)	NP5034(R)	Units
Maximum repetitive peak reverse voltage		V _{RRM}	20	24	34	V
Maximum RMS Voltage		V _{RMS}	14	17	24	V
Maximum DC Blocking Voltage		V _{DC}	20	24	34	V
Maximum average forward output current @ T _A = 50°C		I _{F(AV)}	50			A
Peak forward surge current (8.3ms) single half sine-wave superimposed on rated load		I _{FSM}	600			A
Maximum instantaneous forward voltage drop @ 100 A		V _F	1.2			V
Maximum DC reverse current at rated DC blocking voltage	T _A = 25°C	I _R	1.0			μA
	T _A = 100°C		150			
Typical Thermal Resistance		R _{θ(j-c)}	0.8			°C/W
Operating and storage temperature		T _J , T _{STG}	-40 to +175			°C

Package Outline



PACKAGE A



PACKAGE B

ALL DIMENSIONS IN MM

Ordering Table

NP	50	20	R
1	2	3	4

- 1 – Press-fit Diode
- 2 – Current Rating = $I_F (AV)$
- 3 – Voltage, V_{RRM} (as per table)
- 4 – Polarity:
 - > None = Normal (Cathode to Base) (**Red** Color Epoxy)
 - > R = Reverse (Anode to Base) (**Black** Color Epoxy)