



TVS Auto Rectifier, 50A

Features

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

Mechanical Characteristics

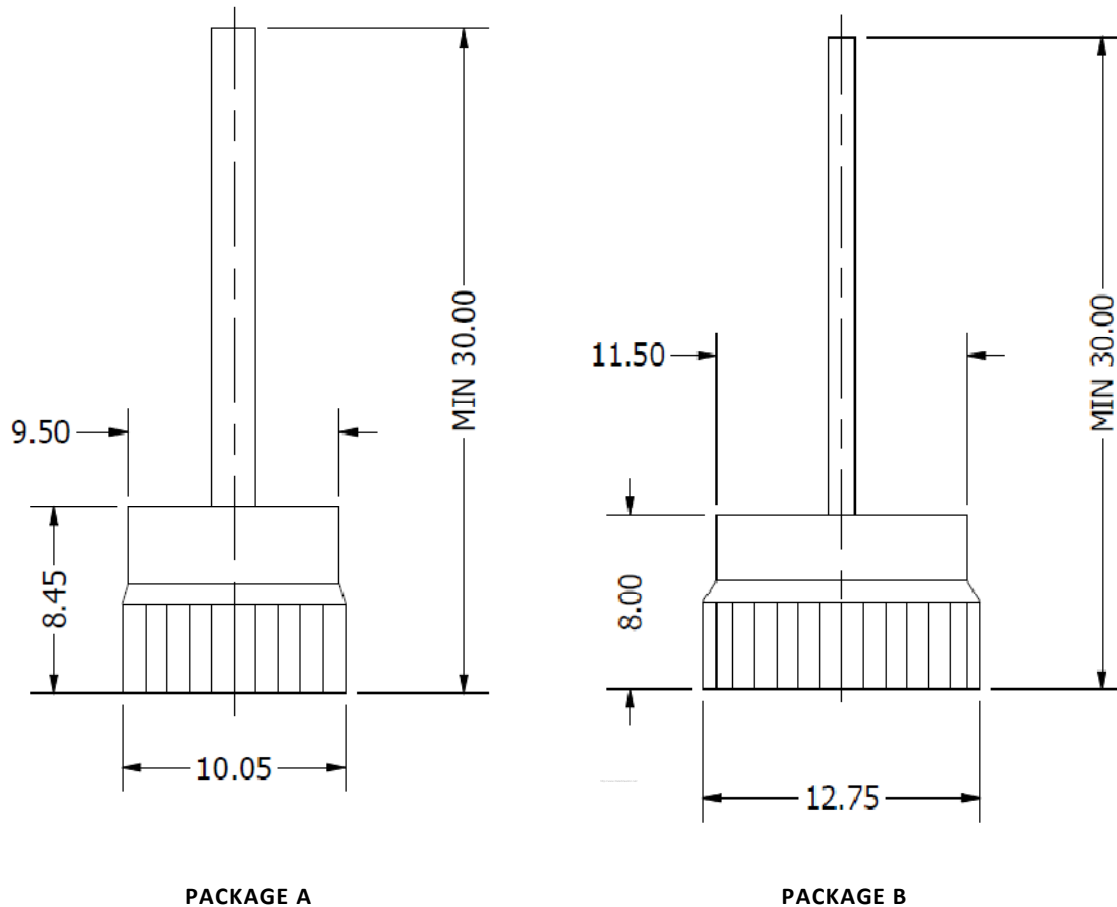
- **Encap:** Epoxy Sealed
- **Lead:** Plated Lead, Solderable
- **Mounting:** Press Fit
- **Weight:** 6.5 grams (approx.)



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 @ $T_A = 50^{\circ}\text{C}$	$I_{F(AV)}$	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	$T_A = 25^{\circ}\text{C}$	I_R	1.0		μA
	$T_A = 100^{\circ}\text{C}$		150		
Typical Thermal Resistance	$R_{\theta(j-c)}$	0.8			$^{\circ}\text{C/W}$
Operating and storage temperature	T_J, T_{STG}	-40 to +175			$^{\circ}\text{C}$

Package Outline



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)