

HIGH VOLTAGE DIODES
YZPST-UGE0421AY4
STANDARD RECOVERY DIODE APPLICATIONS
Features:

- Wide current range
- High surge current capabilities
- Stud cathode and stud anode version

Typical Applications:

- Converters
- Power supplies
- Machine tool controls
- Battery charges

Forward Conduction

| Parameter | Symbol | Min. | Max. | Typ. | Units | Conditions |
|--|--------------|-------------|------------|------|----------------------|---|
| Repetitive peak reverse voltage | V_{RRM} | 3200 | | | V | |
| Non repetitive peak reverse voltage | V_{RSM} | 3300 | | | V | |
| Max. average forward current | $I_{F(AV)M}$ | | 10.9 | | A | Sinewave, 180° conduction, $T_c=45^\circ\text{C}$ |
| Max. RMS forward current | $I_{F(RMS)}$ | | 40 | | A | Nominal value |
| Max. peak, one-cycle forward, non-repetitive surge current | I_{FSM} | | 250 | | A | 10.0 msec (50Hz), sinusoidal wave-shape, 180° conduction, $T_j = 150^\circ\text{C}$ |
| Maximum I^2t for fusing | I^2t | | - | | A^2s | |
| Max. forward voltage drop | V_{FM} | | 2.72 | | V | $I_{TM} = 55\text{A}; T_{vj}=25^\circ\text{C}$ |
| Threshold voltage | V_{F0} | | 1.7 | | V | |

Thermal and Mechanical Specifications

| Parameter | Symbol | Min. | Max. | Typ. | Units | Conditions |
|---------------------------------------|-------------------|------|------|------|------------------|-------------------|
| Operating temperature | T_j | -40 | +150 | | $^\circ\text{C}$ | |
| Storage temperature | T_{stg} | -40 | +150 | | $^\circ\text{C}$ | |
| Thermal resistance - junction to case | $R_{\Theta(j-c)}$ | | - | | K/W | |
| Thermal resistance - case to heatsink | $R_{\Theta(c-s)}$ | | - | | K/W | |
| Mounting force | P | - | 8 | | Nm | $\pm 10\%$ |
| Weight | W | - | - | 115 | g | |
| Case style | | | | - | | See Outline Table |

CASE OUTLINE AND DIMENSIONS.

