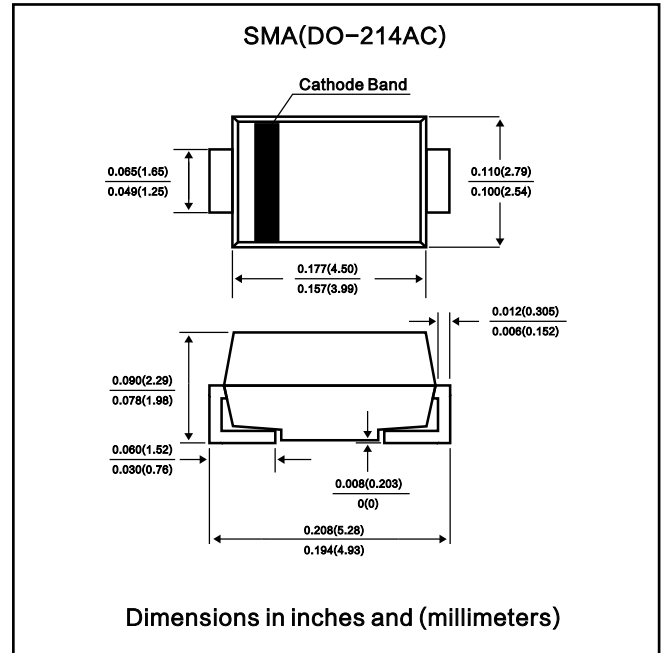


* #"(*&

- ! Low voltage overshoot
- ! Low on-state voltage
- ! Does not degrade surge capability after multiple surge events within limit
- ! Fails short circuit when surged in excess of ratings
- ! Low Capacitance

*)' \$) . / #

- ! Case: SMA/DO-214AC, Molded Plastic
- ! Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- ! Polarity: Cathode Band or Cathode Notch
- ! Marking: Type Number
- ! Weight: 0.064 grams (approx.)



Surge Ratings

| Series | 2/10 S ¹ | 8/20 S ¹ | 10/160 S ¹ | 10/560 S ¹ | 10/1000 S ¹ | 5/310 S ¹ | I _{TSM} 50/60 Hz | di/dt |
|--------|---------------------|-----------------------|-----------------------|-----------------------|------------------------|-----------------------|------------------------------|-------|
| | 2/10 S ² | 1.2/50 S ² | 10/160 S ² | 10/560 S ² | 10/1000 S ² | 10/700 S ² | | |
| | A min | A min | A min | A min | A min | A min | | |
| A | 150 | 150 | 90 | 50 | 45 | 50 | 20 | 500 |

Notes:

1. Current waveform in ! s
 2. Voltage waveform in ! s
- Peak pulse current rating (I_{PP}) is repetitive and guaranteed for the life of the product.
 - I_{PP} ratings applicable over temperature range of -40 C to +85 C
 - The device must initially be in thermal equilibrium with -40°C < T_J < +150°C

Thermal Considerations

| Symbol | Parameter | Value | Unit |
|------------------|---|---------------|------|
| T _J | Operating Junction Temperature Range | - 40 to + 150 | "C |
| T _s | Storage Temperature Range | - 40 to +150 | "C |
| R _{#JA} | Thermal Resistance: Junction to Ambient | 90 | "C/W |

| Part Number | V_{DRM} @ $I_{DRM}=5$ A | V_S @100V/ S | V_T @ $I_T=2.2A$ | I_S | I_T | I_H | C_0 @1MHz | |
|-------------|------------------------------|-------------------|-----------------------|--------|-------|--------|----------------|--------|
| | V min | V max | V max | mA max | A max | mA min | pF min | pF max |
| P0080TA | 6 | 25 | 4 | 800 | 2.2 | 50 | 25 | 50 |
| P0300TA | 25 | 40 | 4 | 800 | 2.2 | 50 | 15 | 70 |
| P0640TA | 58 | 77 | 4 | 800 | 2.2 | 150 | 40 | 50 |
| P0720TA | 65 | 88 | 4 | 800 | 2.2 | 150 | 35 | 50 |
| P0900TA | 75 | 98 | 4 | 800 | 2.2 | 150 | 25 | 45 |
| P1100TA | 90 | 130 | 4 | 800 | 2.2 | 150 | 30 | 45 |
| P1300TA | 120 | 160 | 4 | 800 | 2.2 | 150 | 25 | 45 |
| P1500TA | 140 | 180 | 4 | 800 | 2.2 | 150 | 25 | 40 |
| P1800TA | 170 | 220 | 4 | 800 | 2.2 | 150 | 25 | 40 |
| P2000TA | 180 | 220 | 4 | 800 | 2.2 | 150 | 20 | 40 |
| P2300TA | 190 | 260 | 4 | 800 | 2.2 | 150 | 25 | 35 |
| P2600TA | 220 | 300 | 4 | 800 | 2.2 | 150 | 20 | 35 |
| P3100TA | 275 | 350 | 4 | 800 | 2.2 | 150 | 20 | 30 |
| P3500TA | 320 | 400 | 4 | 800 | 2.2 | 150 | 20 | 30 |
| P4000TA | 360 | 460 | 4 | 800 | 2.2 | 150 | 20 | 30 |
| P4500TA | 400 | 540 | 4 | 800 | 2.2 | 150 | 20 | 30 |
| P5000TA | 440 | 600 | 4 | 800 | 2.2 | 150 | 20 | 30 |

Notes:

- Absolute maximum ratings measured at $T_A=25$ C (unless otherwise noted).
- Devices are bi-directional.

Figure1 - V-I Characteristics

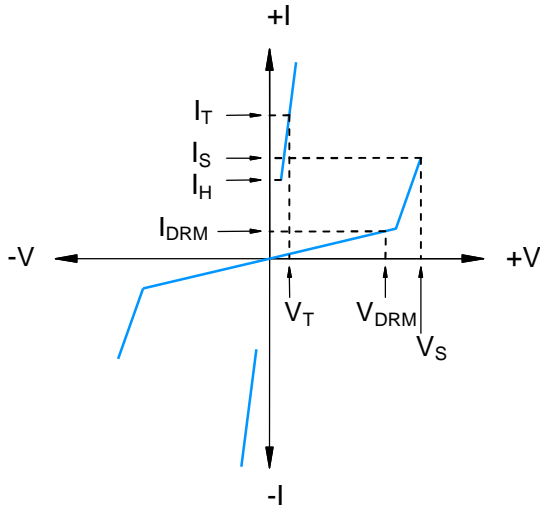


Figure 2- tr"td PulseWaveform

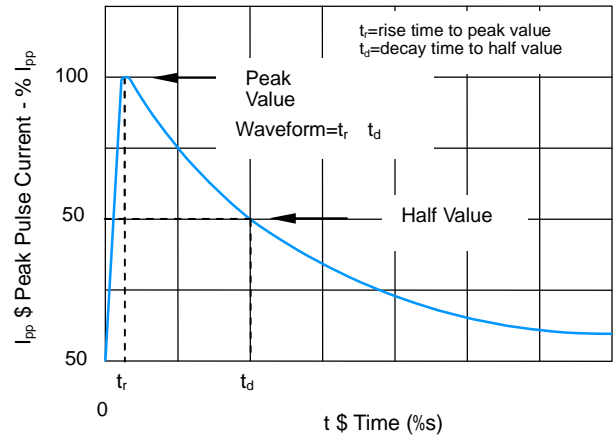


Figure3-Normalized VSChangeVersusJunction Temperature

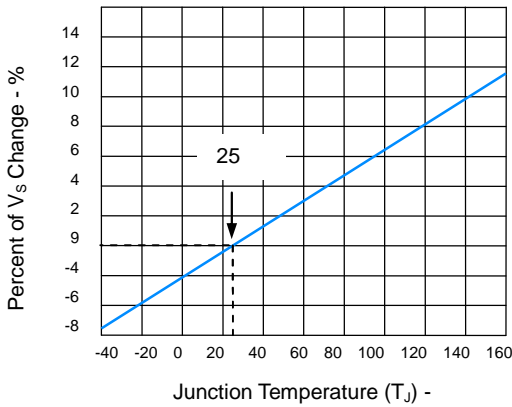


Figure4 -NormalizedDCHoldingCurrentVersusCase Temperature

