

SMA


Symbol

Features

- Low capacitance
- Cannot be damaged by voltage
- Will not fatigue
- Eliminate voltage overshoot
- Glass passivated junction
- Halogen free and RoHS compliant

Mechanical Data

- CASE: SMAJ(DO-214AC) Molded Plastic
- UL Flammability Classification Rating 94V0
- Mounting Position: Any

Making Code & information

| <div style="border: 1px solid black; padding: 5px; display: inline-block;"> PxxxxA YYWW </div> | PxxxxA = Type Code YYWW = Date Code | <table border="1"> <thead> <tr> <th>Package</th> <th>Packing Description</th> <th>Packing Quantity</th> </tr> </thead> <tbody> <tr> <td>SMA</td> <td>Tape/Reel, 11" reel</td> <td>5000</td> </tr> </tbody> </table> | Package | Packing Description | Packing Quantity | SMA | Tape/Reel, 11" reel | 5000 |
|--|--|---|---------|---------------------|------------------|-----|---------------------|------|
| Package | Packing Description | Packing Quantity | | | | | | |
| SMA | Tape/Reel, 11" reel | 5000 | | | | | | |

Maximum Ratings & Thermal Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified.)

| Parameter | Symbol | Value | Units | Remarks |
|--|-----------------|------------|-------|-----------|
| Peak Pulse Voltage | V_{PP} | 2000 | V | 10/700us |
| Peak Pulse Current | I_{PP} | 45 | A | 10/1000us |
| Peak Pulse Current | I_{PK} | 150 | A | 8/20us |
| Peak One-cycle Surge Current | I_{TSM} | 20 | A | 60Hz |
| Rate of Rise of Current | di/dt | 500 | A/us | |
| Typical Thermal Resistance Junction to Lead | $R_{\theta JL}$ | 30 | °C/W | |
| Typical Thermal Resistance Junction to Ambient | $R_{\theta JA}$ | 120 | °C/W | |
| Operating Temperature Range | T_J | -40 to 150 | °C | |
| Storage Temperature Range | T_{STG} | -55 to 150 | °C | |

Electrical Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified.)

| Part Number | Marking | $V_S @ 100KV/S$ V MAX | I_{S_LMT} mA | $V_T @ I_T$ V MAX | I_T A | $I_D @ V_D$ uA MAX | V_D V | $C_O @ 1MHz, 2V_{DC}$ pF TYP | I_H mA MIN |
|-------------|---------|-----------------------------|--------------------|-------------------------|------------|--------------------------|------------|------------------------------------|--------------------|
| P0080TA | P008A | 25 | 500 | 4 | 2.2 | 5 | 6 | 53 | 30 |
| P0220TA | P02A | 30 | 500 | 4 | 2.2 | 5 | 15 | 53 | 30 |
| P0300TA | P03A | 40 | 500 | 4 | 2.2 | 5 | 25 | 50 | 30 |
| P0640TA | P06A | 77 | 800 | 4 | 2.2 | 5 | 58 | 48 | 120 |
| P0720TA | P07A | 88 | 800 | 4 | 2.2 | 5 | 65 | 48 | 120 |
| P0900TA | P09A | 98 | 800 | 4 | 2.2 | 5 | 75 | 48 | 120 |
| P1100TA | P11A | 130 | 800 | 4 | 2.2 | 5 | 90 | 45 | 120 |
| P1300TA | P13A | 160 | 800 | 4 | 2.2 | 5 | 120 | 45 | 120 |
| P1500TA | P15A | 180 | 800 | 4 | 2.2 | 5 | 140 | 43 | 120 |
| P1800TA | P18A | 220 | 800 | 4 | 2.2 | 5 | 170 | 40 | 120 |
| P2300TA | P23A | 260 | 800 | 4 | 2.2 | 5 | 190 | 38 | 120 |
| P2600TA | P26A | 300 | 800 | 4 | 2.2 | 5 | 220 | 35 | 120 |
| P3100TA | P31A | 350 | 800 | 4 | 2.2 | 5 | 275 | 33 | 120 |
| P3500TA | P35A | 400 | 800 | 4 | 2.2 | 5 | 320 | 30 | 120 |
| P4200TA | P42A | 550 | 800 | 4 | 2.2 | 5 | 400 | 23 | 120 |

Ratings and Characteristic Curves

(Ratings at 25°C ambient temperature unless otherwise specified).

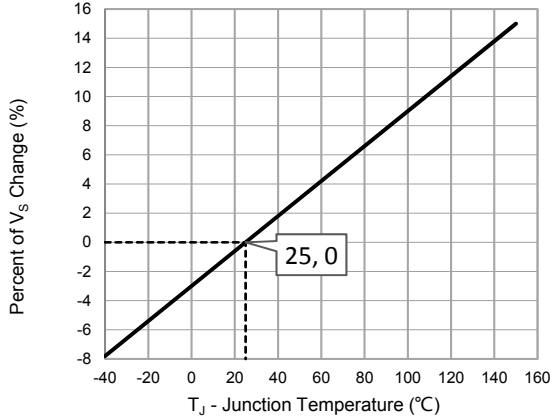


Fig.1 - Peak Pulse Current Rating

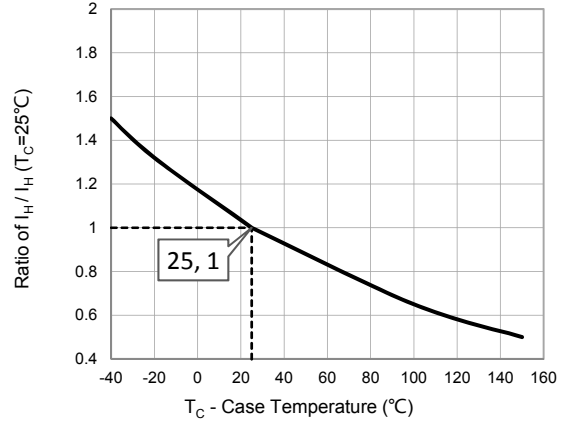


Fig.2 - Normalized DC Holding Current vs. Case Temperature

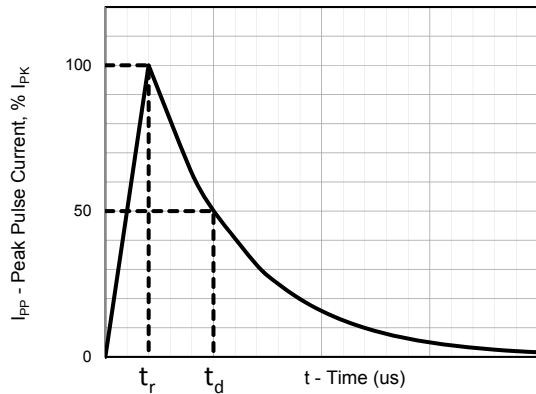


Fig.3 - t_r/t_d us Pulse Waveform

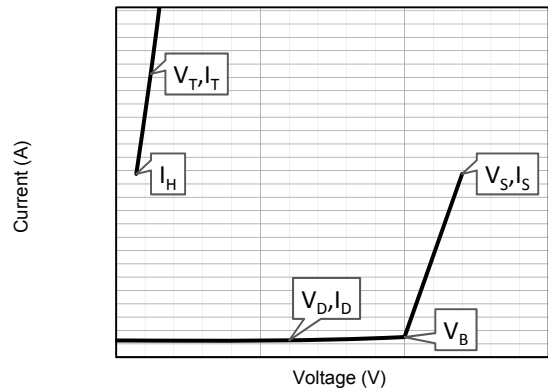


Fig.4 - VI Curve

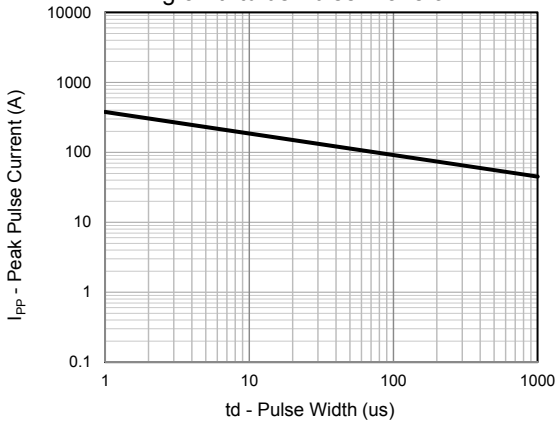


Fig.5 - Peak Pulse Current Rating

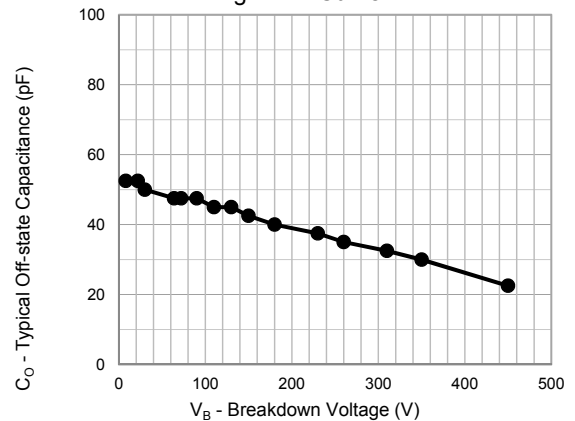


Fig.6 - Typical Off-state Capacitance

Package Outline Dimensions: SMA(DO-214AC)

| Dim | Millimeters | | Inches | |
|-----|-------------|------|--------|-------|
| | Min | Max | Min | Max |
| L | 4.1 | 4.3 | 0.161 | 0.169 |
| D | 2.5 | 2.7 | 0.098 | 0.106 |
| D1 | 1.3 | 1.5 | 0.051 | 0.059 |
| T | 4.8 | 5.2 | 0.189 | 0.205 |
| T1 | 0.9 | 1.5 | 0.035 | 0.060 |
| d | - | 0.2 | - | 0.008 |
| H | 2.05 | 2.35 | 0.081 | 0.093 |
| H1 | 2.0 | 2.2 | 0.079 | 0.087 |

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Thyristor Surge Protection Devices - TSPD category:

Click to view products by PAKER Microelectronics manufacturer:

Other Similar products are found below :

[MMT08B310T3](#) [BEP4200TB](#) [BS4200N-C-2](#) [P0080F](#) [P0080SB](#) [P0640SC](#) [P3100SB](#) [P0640SB](#) [P0080FB-MC](#) [P0080SA](#) [LM61089B](#)
[P3500SC](#) [P3100SB](#) [P2300SC](#) [P0080SC](#) [P0080TAL](#) [P0080LBL](#) [P0220TAL](#) [ES0640SC](#) [P3100SCX](#) [P0080TB](#) [P3500SA](#) [P0800TA](#) [P0080SC](#)
[SKKH 106/18E](#) [SKKH 162/14E](#) [SKKH 42/12E](#) [SKKH 57/16E](#) [SKKH 72/08E](#) [NP3100SBT3G](#) [SK20NHMH10](#) [P3800FNLTP](#) [TB2300L-13-](#)
[F](#) [P2300MEL](#) [TISP4030L1BJR-S](#) [P4800MEL](#) [TISP4P035L1NR-S](#) [TISP4011H1BJR-S](#) [P2600SDLRP](#) [SKKH 280/20E H4](#) [SKKH 72/16E](#)
[SKKH 72/20E H4](#) [SKKH92/16E](#) [SKKH 132/16E](#) [SKKH 172/16E](#) [SKKH 106/16E](#) [BEP3100TA](#) [TISP4015H1BJR-S](#) [TISP4015L1AJR-S](#)
[TISP4015L1BJR-S](#)