MDE Semiconductor, Inc.

78-150 Calle Tampico, Unit 210, La Quinta, CA., USA 92253 Tel : 760-564-8656 • Fax : 760-564-2414
1-800-831-4881 Email: sales@mdesemiconductor.com Web: www.mdesemiconductor.com

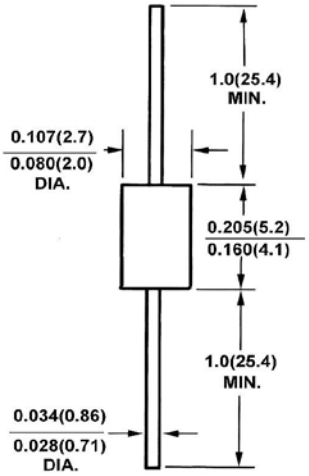
BIDIRECTIONAL THYRISTOR SURGE SUPPRESSOR SERIES

SURFACE MOUNT SMB AND AXIAL LEAD DO-41

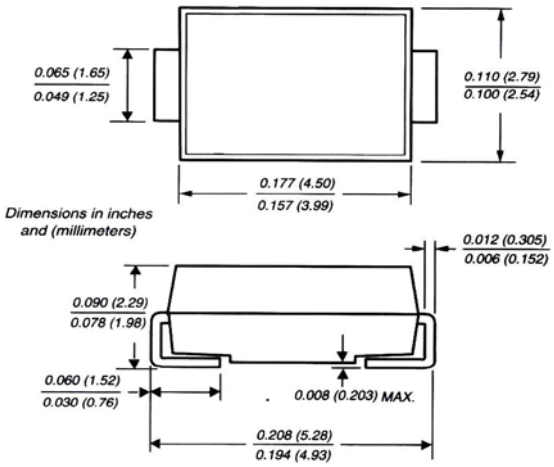
FEATURES

- UL94V-0 Flammability Classification
- ESD Protection >40 kilovolts
- Low Capacitance for T1/E1 Trunk and Line Card Application
- High Surge Current Capability(See Electrical Characteristics)••
- Peak Off-State Voltage from 58 to 300 volts
- Meet IEC100-4-4 & -5 Industry Requirement
- Provides Protection in Accordance with FCC Part 68,UL1459,Bellcore 1089,ITU-TK. 20 & K. 21

DO-204AL (DO-41 Plastic)



DO-214AC (SMA)



MECHANICAL DATA

Case: JEDEC DO-41 Molded plastic over passivated junction

Terminals: Tin Plated Axial leads, solderable per MIL-STD-750, Method 2026

Mounting Position: Any

Weight: 0.012 ounce, 0.3 gram

MECHANICAL DATA

Case: JEDEC DO214AC. Molded plastic over glass passivated junction

Terminal: Solder plated, solderable per MIL-STD-750, Method 2026

Standard Packaging: 12mm tape (EIA STD RS-481)

Weight: 0.002 ounce, 0.061 gram

MDE PART NUMBER	MARKING CODE FOR AXIAL DO-41 PACKAGE	MARKING CODE FOR SMA PACKAGE	REPETITIVE PEAK OFF-STAGE VOLTAGE VDRM VOLTS	SWITCHING VOLTAGE @100V/us Vs VOLTS	MINIMUM HOLDING CURRENT dl/dt=1A/ms IH mA	SWITCHING CURRENT Is mA	SURGE RATINGS IPP 10x1000 µS Amps	ON-STAGE CURRENT IT A	TYPICAL CAPACITANCE @50V,1MHz pF
P0640SAA	P0640SAAL	G1	58	77	150	800	35	1	60
P0720SAA	P0720SAAL	G2	65	88	150	800	35	1	60
P0800SAA	P0800SAAL	G3	75	98	150	800	35	1	60
P1100SAA	P1100SAAL	G4	90	130	150	800	35	1	60
P1300SAA	P1300SAAL	G5	120	160	150	800	35	1	40
P1500SAA	P1500SAAL	G6	140	180	150	800	35	1	40
P1800SAA	P1800SAAL	G7	160	220	150	800	35	1	40
P2300SAA	P2300SAAL	G8	190	260	150	800	35	1	30
P2600SAA	P2600SAAL	G9	220	300	150	800	35	1	30
P3100SAA	P3100SAAL	GA	275	350	150	800	35	1	30
P3500SAA	P3500SAAL	GB	300	400	150	800	35	1	30
P4000SAA	P4000SAAL	FZ	360	450	150	800	35	1	30

Maximum Off-State Current @VDRM : 5µA

Maximum On-State Voltage @I_T : 5volts

For AXIAL devices,use suffix L (e.g. P3100AL) electrical charactics apply in both AXIAL and Surface Mounted Devices.

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BIDIRECTIONAL THYRISTOR SURGE SUPPRESSOR SERIES

RATINGS AND CHARACTERISTIC CURVES

Fig.1 Pulse Wave Form Example

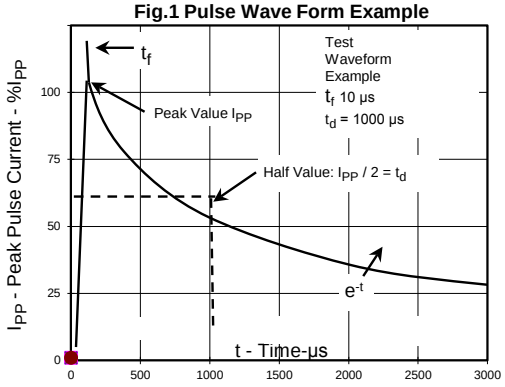


Fig.2 Typical Peak Off-State Current

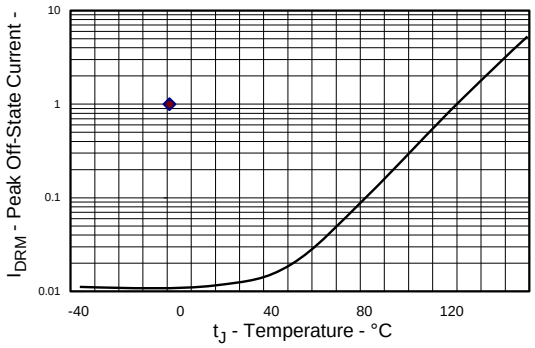


Fig.3 Typical On-State Current

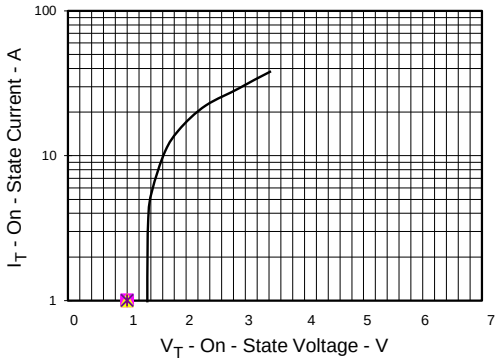


Fig.4 Typical Holding Current Vs

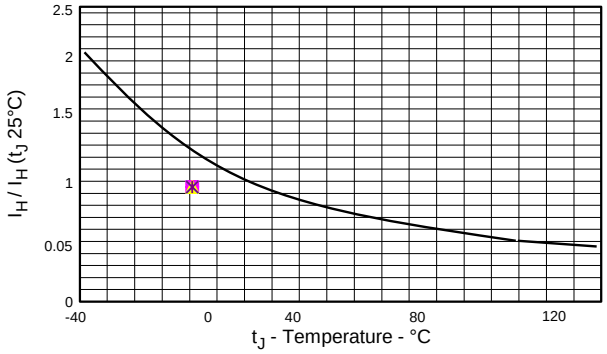


Fig.5 Typical normalized V_S Vs Junction Temperature

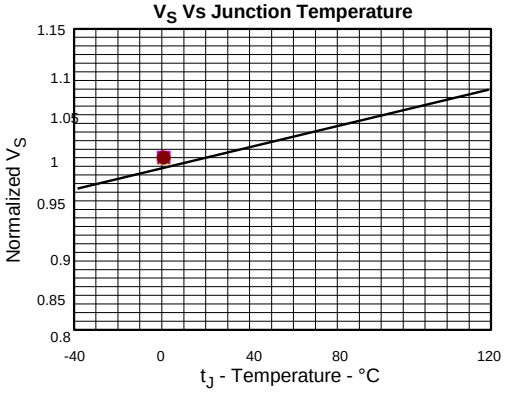


Fig.6 On-State Current Vs Surge Current Duration

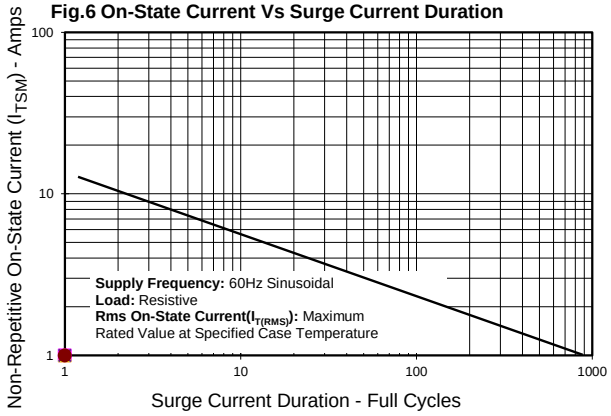


Fig.7 V - I Characteristics Curve

