



4.6kW SURFACE MOUNT TRANSIENT VOLTAGE SUPPERSSOR

Stand-Off Voltage

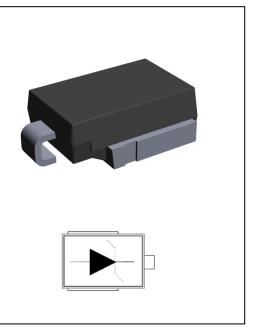
22V

Features

- Rated for load dump protection (ISO 16750-2) in automotive applications
- Reliable operation at maximum T_J=175 °C
- Low leakage current
- Unidirectional operation
- Acquire quality system certificate : TS16949
- AEC-Q101 qualified
- Meets ISO 7637-2 Requirements
- Meets MSL Level 1 per J-STD-020
 Lead free in compliance with EU RoHS2.0 (2011/65/EU &
- 2015/865/EU directive)
 Green molding compound as per IEC61249 Std. . (Halogen Free)

Mechanical Data

- Case: DO-218AC
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Headsink is the anode



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

RATING	SYMBOL	LIMIT	UNIT
$10/1,000 \mu s$ Peak Pulse Power Dissipation on T _A = $25^{\circ}C$ (Notes 1)	P _{PPM1}	4600	W
$10/10,000 \mu$ s Peak Pulse Power Dissipation on T _A = 25° C	P _{PPM2}	3600	W
Peak Surge Current (60Hz half wave)	I _{FSM}	600	А
Typical Thermal Resistance Junction to Case	R _{θJC}	0.95	°C/W
Power Dissipation on infinite heatsink $T_A = 25^{\circ}C$	P _D	6	W
IEC61000-4-2 Contact	V _{ESD}	8	kV
IEC61000-4-2 Air	V _{ESD}	15	kV
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to 175	°C

Notes : 1. Non-repetitive pulse. Derate over $T_A = 25^{\circ}C$.

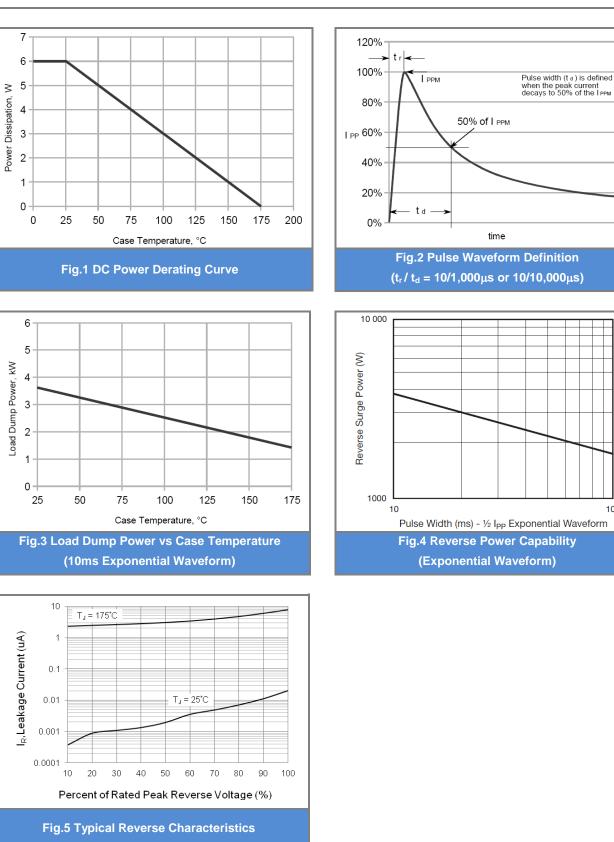




Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Stand-off Voltage	V _{RWM}	-	22	-	-	V
Breakdown Voltage	V _{BR}	I _T =10mA	24	-	30	V
Max. Clamp Voltage ⁽²⁾	Vc	I _{PP} =65A	-	-	40	V
Reverse Leakage Current	I _R	$V_R=22V, T_J=25^{\circ}C$	-	-	0.5	μA
		V _R =22V, T _J =175°C	-	-	20	μA

Notes : 2. 10/1,0000 μ s surge pulse waveform.



Typical Characteristic Curves

ΡΛΝ SEMI CONDUCTOR



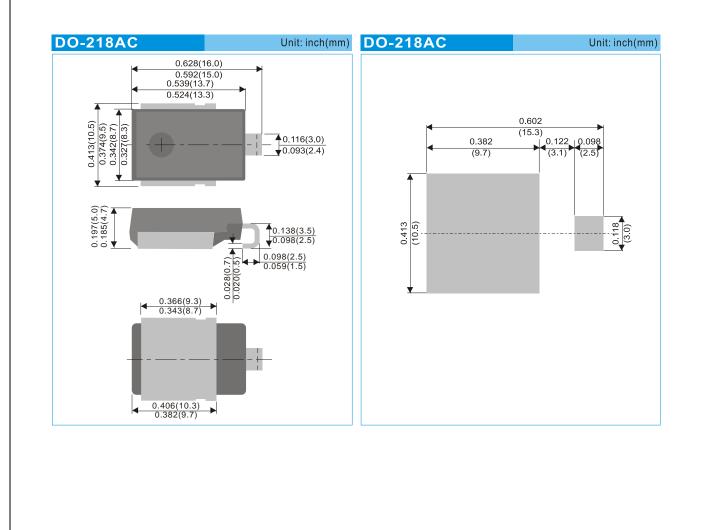
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Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
4.6KSMX27A-AU_R2_000A1	DO-218AC	600 pcs / 13" reel	4EEP	Halogen free

Packaging Information & Mounting Pad Layout





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