



6.6kW SURFACE MOUNT TRANSIENT VOLTAGE SUPPERSSOR

Stand-Off Voltage

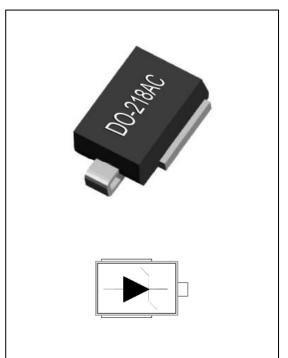
14~43V

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 RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)



- 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
10/1,000μs Peak Pulse Power Dissipation on $T_A = 25$ °C (Notes 1)	P _{PPM1}	6600	W
10/10,000μs Peak Pulse Power Dissipation on T _A = 25°C	P _{PPM2}	5200	W
Peak Surge Current (60Hz half wave)	I _{FSM}	700	Α
Typical Thermal Resistance Junction to Case	$R_{ heta JC}$	0.9	°C/W
Power Dissipation on infinite heatsink T _A = 25°C	P _D	8	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)

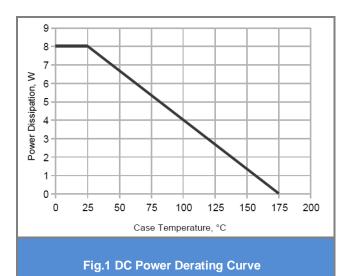
Part Number	Reverse Stand-off Voltage	Breakdown Voltage V _{BR} @ I _T Min. Max.		Test Current	Reverse Leakage	Max. Clamp Voltage ⁽²⁾	Peak Pulse Current ⁽²⁾	Marking
	V_{RWM}			Ι _Τ	I _R @ V _{RWM}	V _C @ I _{PP}	I _{PP}	Code
	V	V	V	mA	μΑ	V	Α	
6.6KSMJX14A-AU	14	15.6	17.2	5	10	23.2	284	6XEK
6.6KSMJX20A-AU	20	22.2	24.5	5	10	32.4	204	6XEV
6.6KSMJX22A-AU	22	24.4	26.9	5	10	35.5	186	6XEX
6.6KSMJX24A-AU	24	26.7	29.5	5	10	38.9	170	6XEZ
6.6KSMJX33A-AU	33	36.7	40.6	5	10	53.3	124	6XFM
6.6KSMJX36A-AU	36	40	44.2	5	10	58.1	114	6XFP
6.6KSMJX43A-AU	43	47.8	52.8	5	10	69.4	95	6XFT

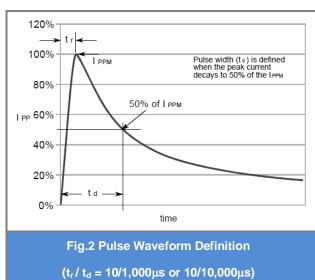
Notes : 2. $10/1,000\mu s$ surge pulse waveform.

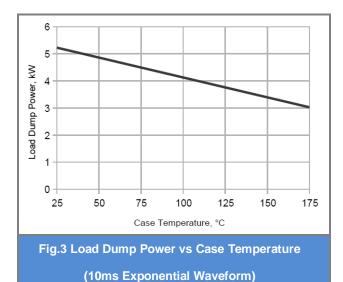


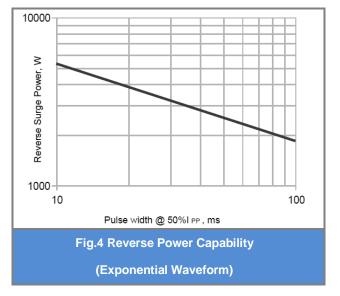


Typical Characteristic Curves





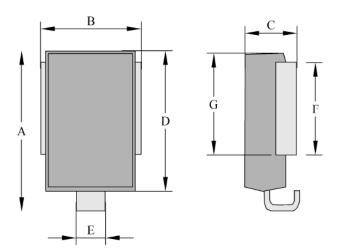








Packaging Information Unit (mm)



DIMENSION	MIN	MAX
Α	15.0	16.0
В	9.5	10.5
С	4.7	5.0
D	13.3	13.7
E	2.4	3.0
F	8.7	9.3
G	9.7	10.3





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