



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)

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
10/1,000μs Peak Pulse Power Dissipation on $T_A = 25^{\circ}C$ (Notes 1)	P _{PPM1}	6600	W
$10/10,000 \mu$ s Peak Pulse Power Dissipation on T _A = 25° C	P _{PPM2}	5200	W
Peak Surge Current (60Hz half wave)	I _{FSM}	700	А
Typical Thermal Resistance Junction to Case	$R_{ ext{ heta}JC}$	0.9	°C/W
Power Dissipation on infinite heatsink $T_A = 25^{\circ}C$	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 ($T_A=25^{\circ}C$ unless otherwise noted)

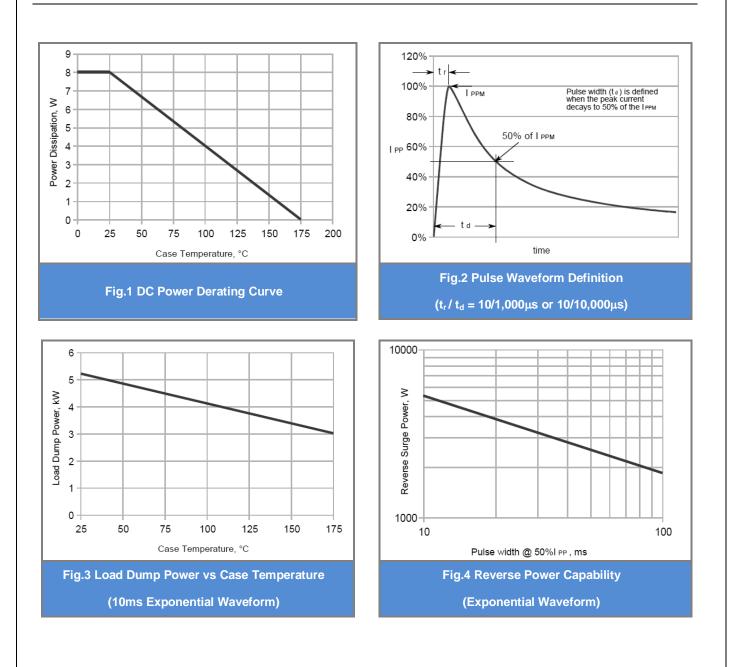
Part Number	Reverse Stand-off Voltage	Breakdown Voltage		Test Current	Reverse Leakage	Max. Clamp Voltage ⁽²⁾	Peak Pulse Current ⁽²⁾	Marking
	V _{RWM}	V _B Min.	_R @ I _T Max.	Ι _Τ	I _R @ V _{RWM}	V _C @ I _{PP}	I _{PP}	Code
	V	V	V	mA	μA	V	А	
6.6KSMJX14A-AU	14	15.6	17.2	5	10	23.2	284	6XEK
6.6KSMJX20A-AU	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 μs surge pulse waveform.



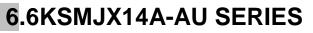


Typical Characteristic Curves

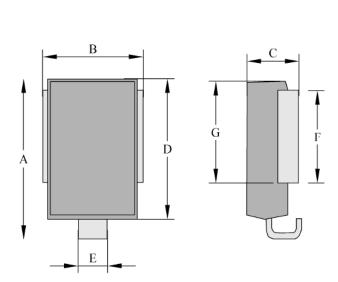








Packaging Information Unit (mm)



MIN	MAX
15.0	16.0
9.5	10.5
4.7	5.0
13.3	13.7
2.4	3.0
8.7	9.3
9.7	10.3
	15.0 9.5 4.7 13.3 2.4 8.7







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