

US2A-M

SURFACE MOUNT ULTRAFAST EFFICIENT RECTIFIER

Reverse Voltage - 50 to 1000 Volts

Forward Current - 2.0 Ampere

Features

- Plastic package has Underwriters Laboratory
- Flammability Classification 94V-0
- Glass passivated chip junctions
- Ultrafast recovery times for high efficiency
- Low forward voltage, low power loss
- High temperature soldering guaranteed:
- 260°C/10 seconds on terminals
- RoHS compliant package

Mechanical Data

- Case: JEDEC DO-214AA molded plastic body
- Terminals: Solder plated, solderable per

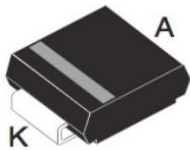
MIL-STD-750, Method 2026

- Polarity: Color band denotes cathode end
- Weight: 0.093 gram

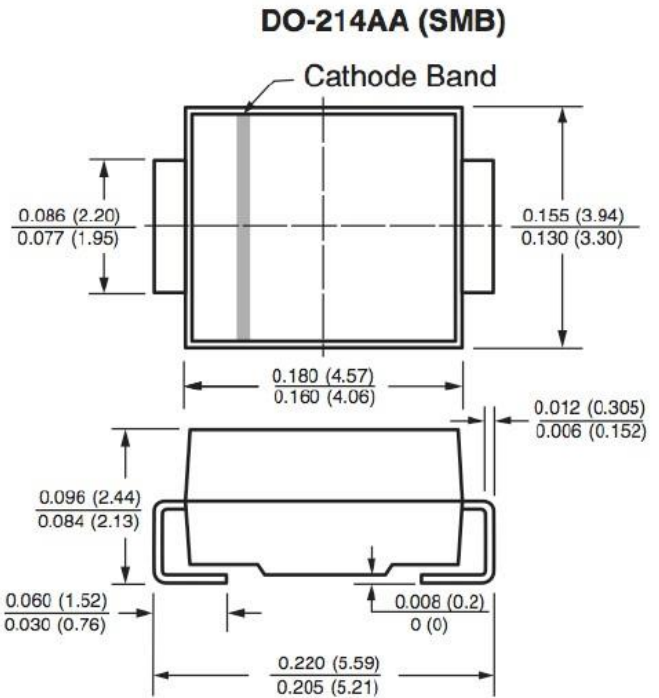
Package type : SMB

Packing & Order Information

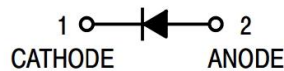
3,000/Reel



RoHS
COMPLIANT



Graphic symbol



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

		US2A	US2B	US2D	US2G	US2J	US2K	US2M	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RWS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	100	V
Maximum average forward rectified current at $T_L=110^\circ\text{C}$	$I_{F(AV)}$	2							A
Peak forward surge current 8.3ms single half-sine-wave	I_{FSM}	30							A

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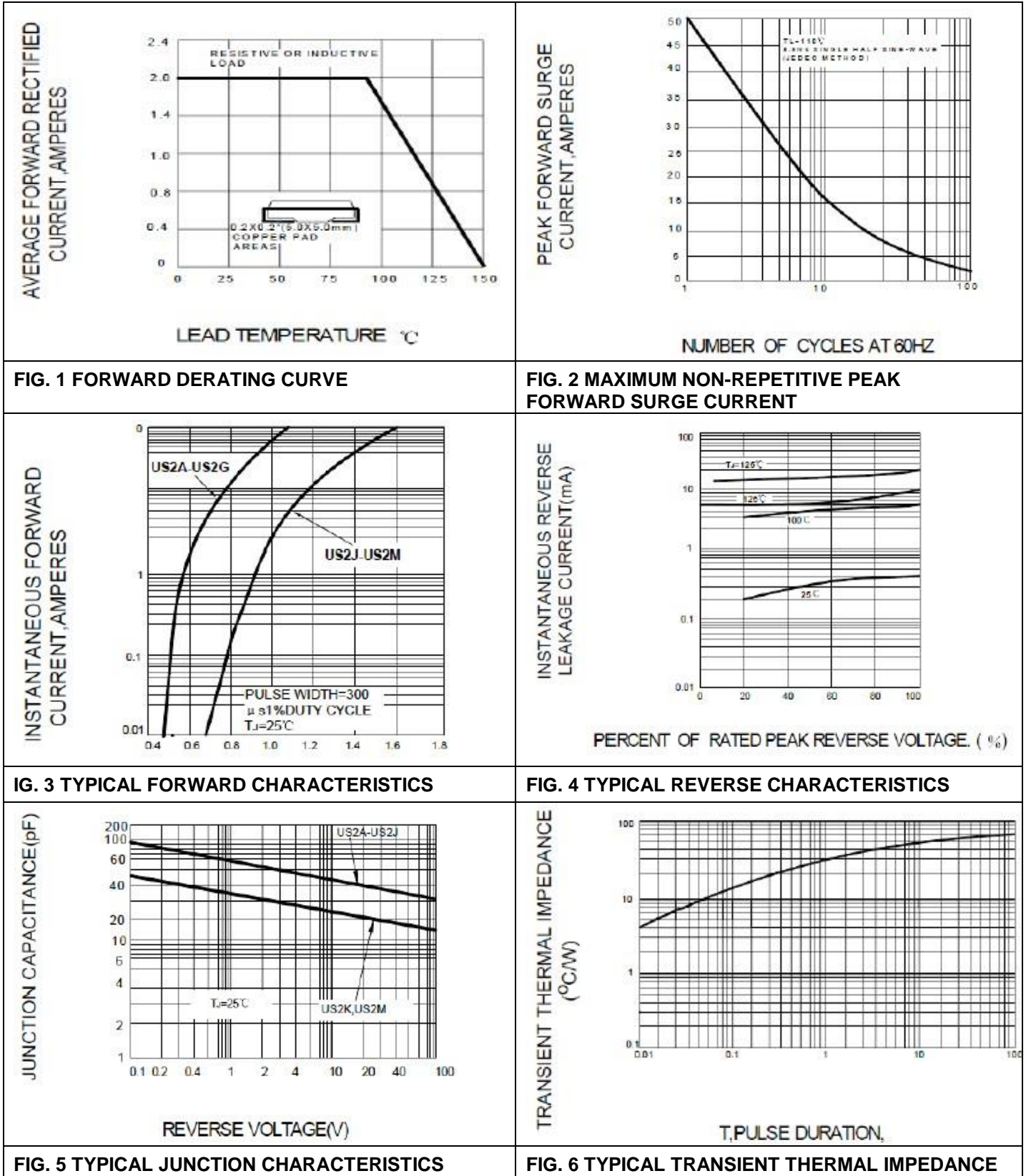
		US2A	US2B	US2D	US2G	US2J	US2K	US2M	UNITS
Maximum instantaneous forward voltage at $I_{FM}=2.0A$	V_F	1.0			1.7				V
Maximum DC reverse current $T_J=25^{\circ}C$ At rated DC blocking voltage $T_A=100^{\circ}C$	I_R	10			50				μA
Maximum reverse recovery time	T_{rr}	50			75				nS
Typical junction capacitance	C_j	17			15				pF
Maximum thermal resistance	$R_{\theta JA}$	35							$^{\circ}C/W$
	$R_{\theta JL}$	27							$^{\circ}C/W$
Storage temperature range	T_{STG}	-55 to +150							$^{\circ}C$

NOTE : 1.Pulse test: Pulse width 300us, duty cycle 1%

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■ Ratings and Characteristic Curves



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