

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

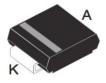
- Case: JEDEC DO-214AA molded plastic body
- Terminals: Solder plated, solderable per

MIL-STD-750, Method 2026

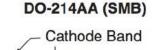
- · Polarity: Color band denotes cathode end
- Weight: 0.093 gram

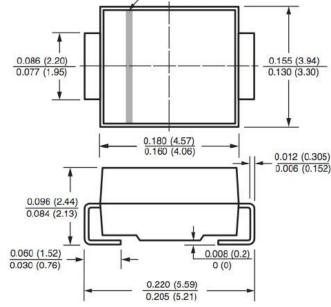
Packing & Order Information

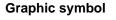
3,000/Reel











1 O 2 CATHODE ANODE

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		2							A	
current at T _L =110°C	I _{F(AV)}	2								
Peak forward surge current 8.3ms single		30							A	
half-sine-wave	IFSM									



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Ratings at 25°C ambient temperature unless otherwise specified											
		US2A	US2B	US2D	US2G	US2J	US2K	US2M	UNITS		
Maximum instantaneous forward voltage	V										
at I _{FM} =2.0A	V _F	1.0				1.7			V		
Maximum DC reverse current TJ=25°C	1	10							uA		
At rated DC blocking voltage TA=100°C	IR	50									
Maximum reverse recovery time	Trr	50				75			nS		
Typical junction capacitance	Cj	17				15			pF		
Maximum thermal resistance	$R_{\theta JA}$	35						°C/W			
	$R_{ extsf{ heta}JL}$	27						°C/W			
Storage temperature range	T _{STG}	-55 to +150						°C			

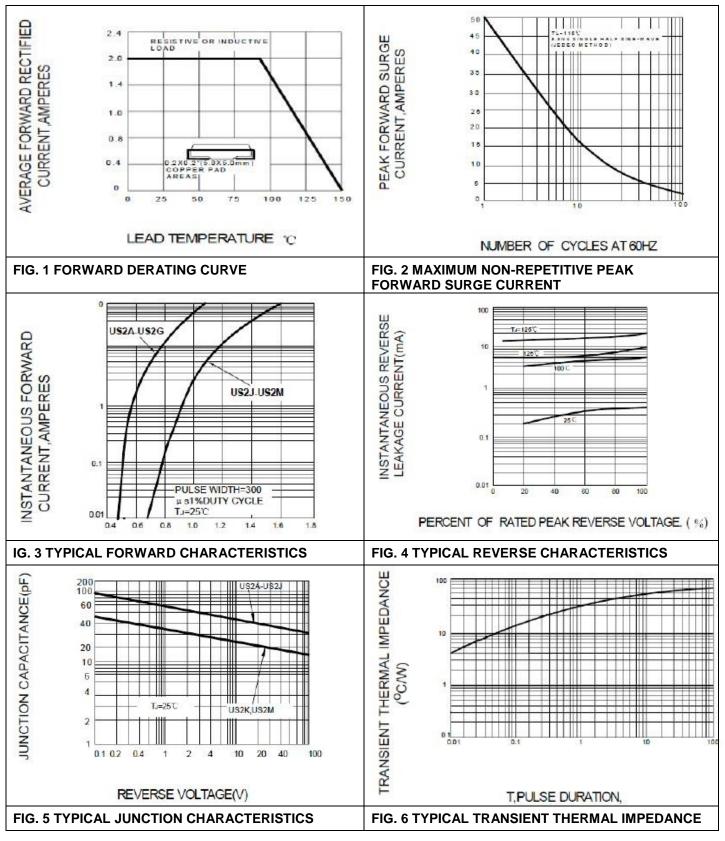
NOTE: 1.Pulse test: Pulse width 300us, duty cycle 1%



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Ratings and Characteristic Curves





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