

# 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

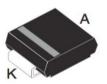
· Polarity: Color band denotes cathode end

· Weight: 0.093 gram

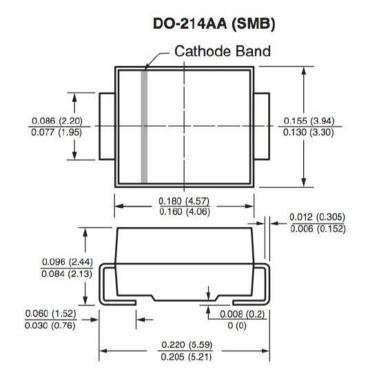
Package type: SMB

**Packing & Order Information** 

3,000/Reel







### **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 <sub>RRM</sub>	50	100	200	400	600	800	1000	V	
Maximum RMS voltage	V <sub>RWS</sub>	35	70	140	280	420	560	700	V	
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	400	600	800	100	V	
Maximum average forward rectified		2							A	
current at T <sub>L</sub> =110°C	IF(AV)	2								
Peak forward surge current 8.3ms single	1	30							А	
half-sine-wave	IFSM									



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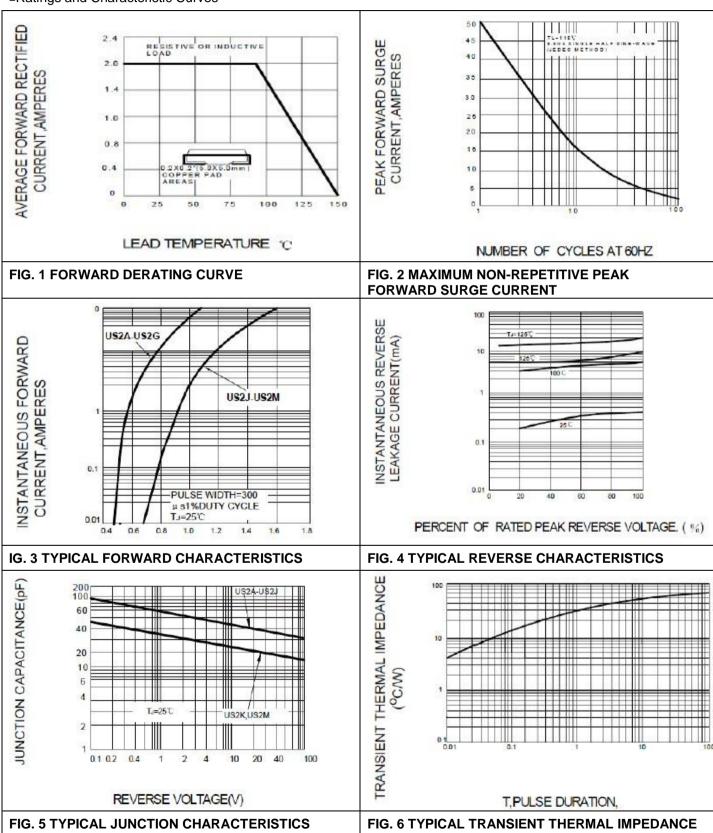
Ratings at 25°C ambient temperature unless otherwise specified											
		US2A	US2B	US2D	US2G	US2J	US2K	US2M	UNITS		
Maximum instantaneous forward voltage		4.7									
at I <sub>FM</sub> =2.0A	V <sub>F</sub>	1.0				1.7			V		
Maximum DC reverse current TJ=25°C		10							uA		
At rated DC blocking voltage TA=100°C	lR	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			
	Rejl	27					°C/W				
Storage temperature range	Tstg	-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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