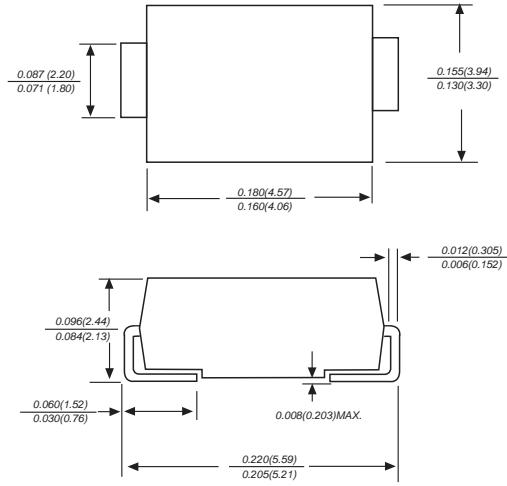
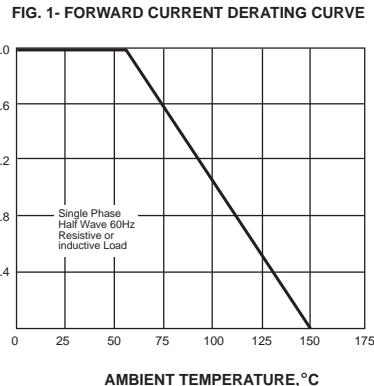


# US2A THRU US2M

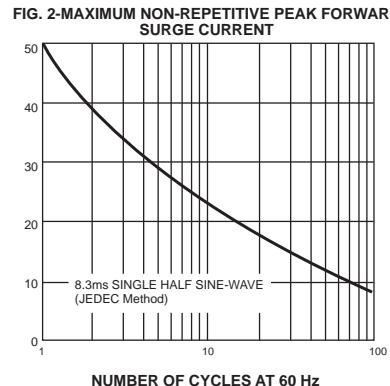
SMB/DO-214AA		FEATURES									
 <p>Dimensions in inches and (millimeters)</p>		<ul style="list-style-type: none"> <li>◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0</li> <li>◆ For surface mounted applications</li> <li>◆ Ultra fast switching for high efficiency</li> <li>◆ Low reverse leakage</li> <li>◆ Built-in strain relief, ideal for automated placement</li> <li>◆ High forward surge current capability</li> <li>◆ High temperature soldering guaranteed: 250°C/10 seconds at terminals</li> </ul>									
		<h3>MECHANICAL DATA</h3> <p><b>Case:</b> JEDEC DO-214AA molded plastic body  <b>Terminals:</b> Solder plated, solderable per MIL-STD-750, Method 2026  <b>Polarity:</b> Color band denotes cathode end  <b>Mounting Position:</b> Any  <b>Weight:</b> 0.003 ounce, 0.093 grams</p>									
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS											
Catalog Number		SYMBOLS	US2A	US2B	US2D	US2G	US2J	US2K	US2M	UNITS	
Maximum repetitive peak reverse voltage		V <sub>RRM</sub>	50	100	200	400	600	800	1000	VOLTS	
Maximum RMS voltage		V <sub>RMS</sub>	35	70	140	280	420	560	700	VOLTS	
Maximum DC blocking voltage		V <sub>DC</sub>	50	100	200	400	600	800	1000	VOLTS	
Maximum average forward rectified current at T <sub>L</sub> =75°C		I <sub>(AV)</sub>	2.0						Amps		
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		I <sub>FSM</sub>	50.0						Amps		
Maximum instantaneous forward voltage at 2.0A		V <sub>F</sub>	1.0		1.4	1.7		Volts			
Maximum DC reverse current T <sub>A</sub> =25°C at rated DC blocking voltage T <sub>A</sub> =125°C		I <sub>R</sub>	5.0 350.0						µA		
Maximum reverse recovery time (NOTE 1)		t <sub>rr</sub>	50		75		ns				
Typical junction capacitance (NOTE 2)		C <sub>J</sub>	28.0						pF		
Typical thermal resistance (NOTE 3)		R <sub>θJA</sub>	20.0						°C/W		
Operating junction and storage temperature range		T <sub>J</sub> , T <sub>STG</sub>	-50 to +150						°C		

# US2A THRU US2M

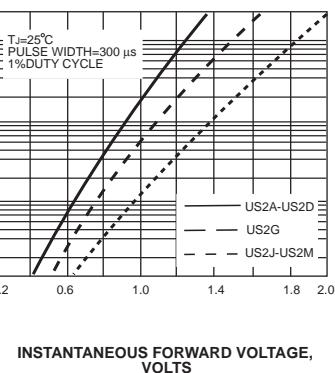
AVERAGE FORWARD RECTIFIED CURRENT,  
AMPERES



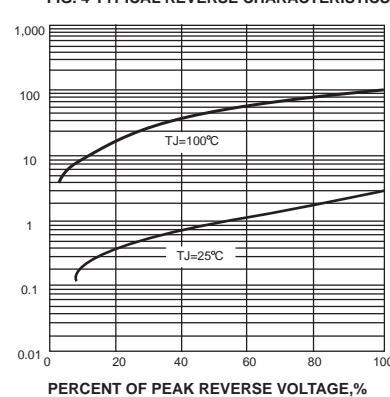
PEAK FORWARD SURGE CURRENT,  
AMPERES



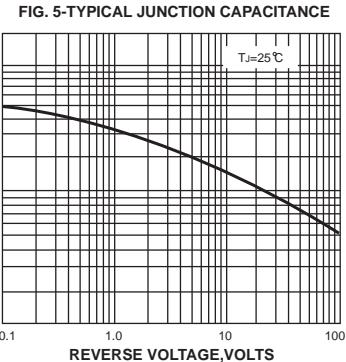
INSTANTANEOUS FORWARD  
CURRENT AMPERES



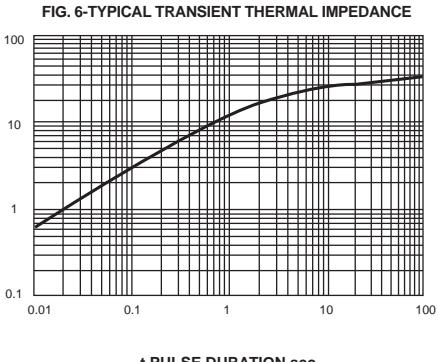
INSTANTANEOUS REVERSE CURRENT,  
MICROAMPERES



JUNCTION CAPACITANCE, pF



TRANSIENT THERMAL IMPEDANCE,  
°C/W



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