

<b>SURFACE MOUNT ULTRA FAST RECTIFIER</b>	Reverse Voltage - 50 to 1000 Volts Forward Current -3.0 Amperes
<p><b>DO-214AB/SMC</b></p> <p style="text-align: center;"><i>Dimensions in inches and (millimeters)</i></p>	<p><b>Features</b></p> <ul style="list-style-type: none"> <li>◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0</li> <li>◆ Idea for printed circuit board</li> <li>◆ Glass passivated Junction chip</li> <li>◆ Low reverse leakage</li> <li>◆ High forward surge current capability</li> <li>◆ High temperature soldering guaranteed 250°C/10 seconds at terminals</li> </ul> <p><b>Mechanical Data</b></p> <p><b>Case :</b> Molded plastic body</p> <p><b>Terminals :</b> Solder plated, solderable per MIL-STD-750, Method 2026</p> <p><b>Polarity :</b> Polarity symbol marking on body</p> <p><b>Mounting Position :</b> Any</p> <p><b>Weight :</b> 0.008 ounce, 0.225 grams</p>

## Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	SYMBOLS	US3AC	US3BC	US3DC	US3GC	US3JC	US3KC	US3MC	UNITS
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum average forward rectified current at T <sub>L</sub> =100°C	I <sub>(AV)</sub>	3.0							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	100.0							A
Maximum instantaneous forward voltage at 3.0A	V <sub>F</sub>	1.0		1.4	1.7				V
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>	5.0 500							uA
Maximum reverse recovery time(Note 1)	T <sub>rr</sub>	50				75			ns
Typical junction capacitance (Note2)	C <sub>J</sub>	65.0							pF
Typical thermal resistance	R <sub>qJA</sub>	47.0							°C/W
Operating junction and storage temperature range	T <sub>J</sub> ,T <sub>STG</sub>	-55 to +150							°C

**Ratings And Characteristic Curves**

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

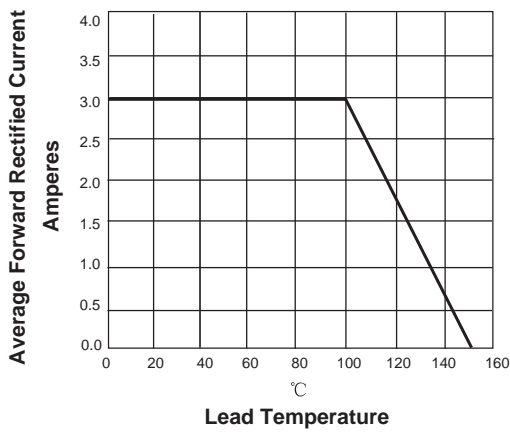


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

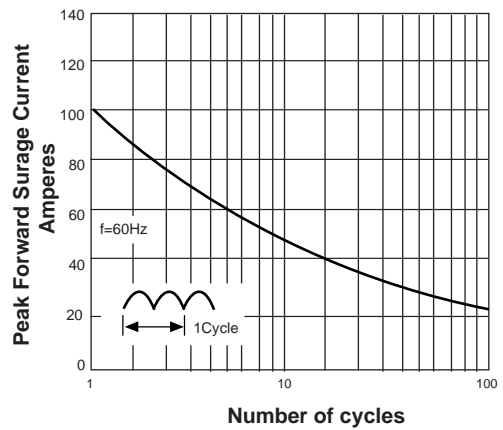


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

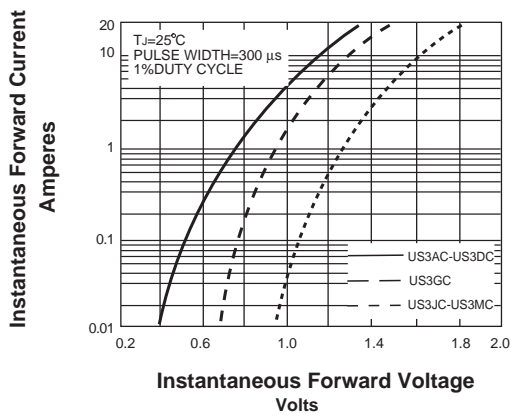
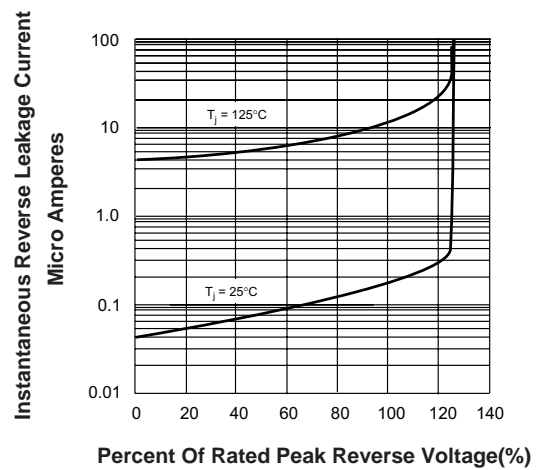


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



单击下面可查看定价，库存，交付和生命周期等信息

[>>DIOS\(迪恩思\)](#)