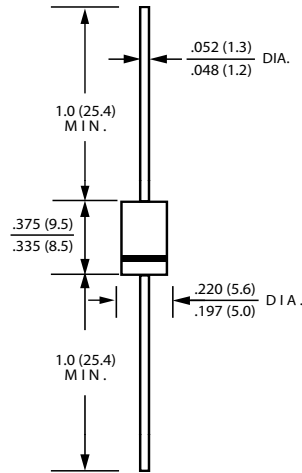


<p><b>Excellent Schottky Rectifier</b></p>	<p><b>REVERSE VOLTAGE - 45 Volts</b> <b>FORWARD CURRENT - 10.0 Amperes</b></p>
<p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>• Low power loss, high efficiency</li> <li>• Low forward voltage drop</li> <li>• High forward surge capability</li> <li>• High frequency operation</li> <li>• Excellent high temperature stability</li> <li>• Excellent Schottky technology</li> </ul> <p><b>MECHANICAL DATA</b></p> <ul style="list-style-type: none"> <li>• Case: DO-201AD</li> <li>• Polarity: Cathode Band</li> <li>• Weight: Approximated 1.071 grams</li> </ul>	 <p><b>DO-201AD</b> Dimensions in inches and (millimeters)</p>

<p><b>MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS</b> Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load. derate current by 20%</p>
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Characteristics	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	45	V
RMS Reverse Voltage	$V_{RMS}$	31.5	V
Maximum Forward Voltage $I_F=2A$ ( $T_J=25^\circ C$ ) $I_F=10A$ ( $T_J=25^\circ C$ ) $I_F=10A$ ( $T_J=125^\circ C$ )	$V_F$	0.35 0.56 0.49	V
Maximum Reverse Current at Rated $V_{RRM}$ $T_J=25^\circ C$ $T_J=125^\circ C$	$I_R$	0.5 20	mA
Maximum Average Forward Rectified Current Total device	$I_F$	10	A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	150	A
Typical Thermal Resistance	$R_{JC}$	15	°C/W
Operating and Storage Temperature Range	$T_J, T_{STG}$	-55 to +150	°C

## Rating and Characteristic Curves

FIG. 1-Typical Forward Current Derating Curve

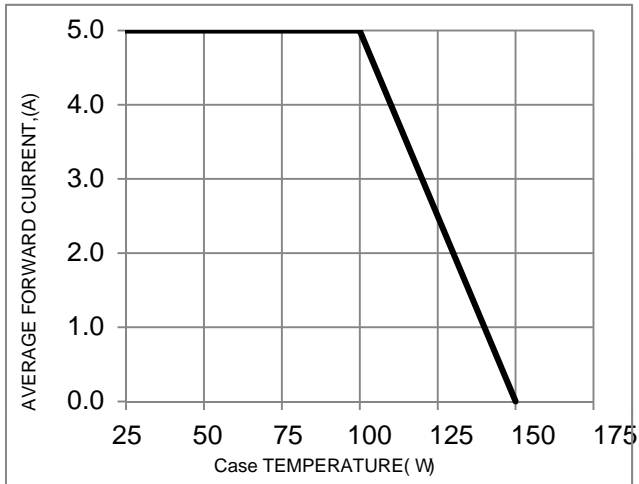


FIG. 2-Typical Forward Characteristics

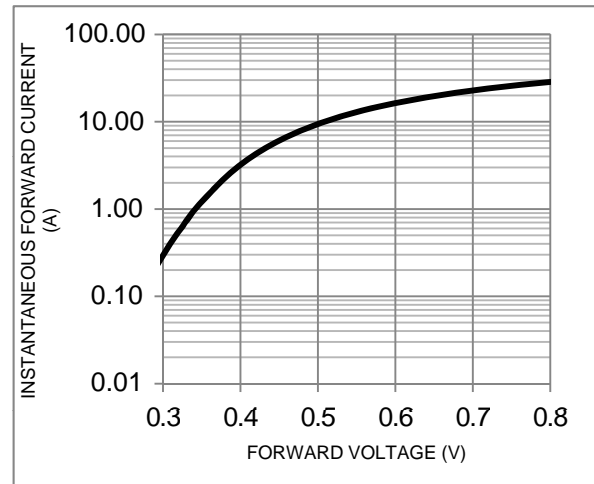


FIG. 3-Maximum Non-Repetitive Forward Surge

