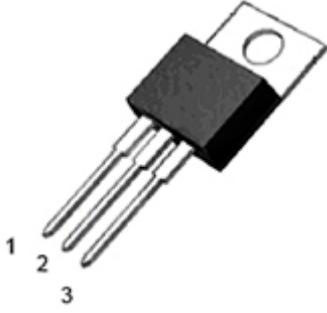
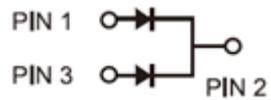


<h2>Trench MOS Schottky Rectifier</h2>	<p>REVERSE VOLTAGE - 300 Volts FORWARD CURRENT - 20.0 Amperes</p>
<p>FEATURES</p> <ul style="list-style-type: none"> • Low power loss, high efficiency • Low forward voltage drop • High forward surge capability • High frequency operation • Excellent high temperature stability • Trench MOS Schottky technology <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> • Case: TO-220 • Polarity: As marked • Weight: Approximated 1.6 grams 	<p>TO-220</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. derate current by 20%

Characteristics	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	300	V
RMS Reverse Voltage	V_{RMS}	210	V
Forward Voltage Drop $I_F=5A$ ($T_J=25^\circ C$) $I_F=5A$ ($T_J=125^\circ C$) $I_F=10 A$ ($T_J=25^\circ C$) $I_F=10 A$ ($T_J=125^\circ C$)	V_F	Typ. 0.89 0.81 0.93 0.87	V
Maximum Reverse Current at Rated V_{RRM} $T_J=25^\circ C$ $T_J=125^\circ C$	I_R	10 5	μA mA
Maximum Average Forward Rectified Current Total device Per diode	I_O	20 10	A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	150	A
Peak Repetitive Reverse Current at $t_p=2 \mu s$, 1 kHz,	I_{RRM}	1.0	A
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to +150	°C

Rating and Characteristic Curves

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

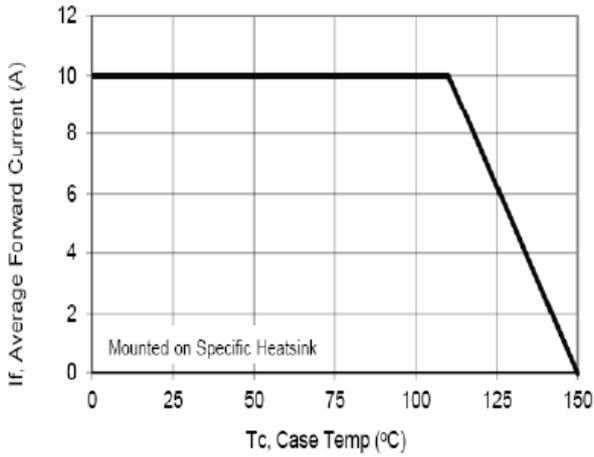


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

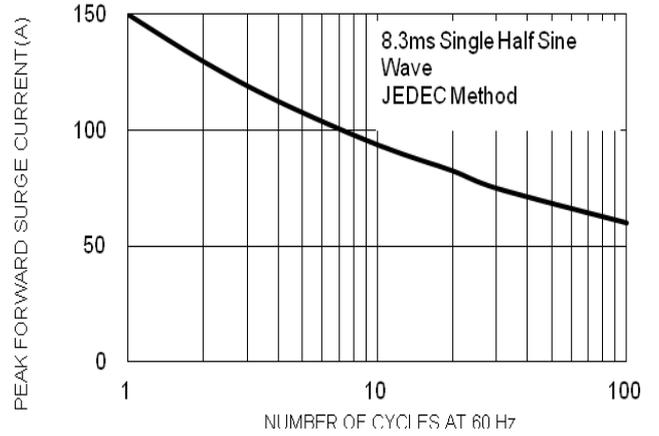


FIG. 3 TYPICAL FORWARD CHARACTERISTICS PER LEG

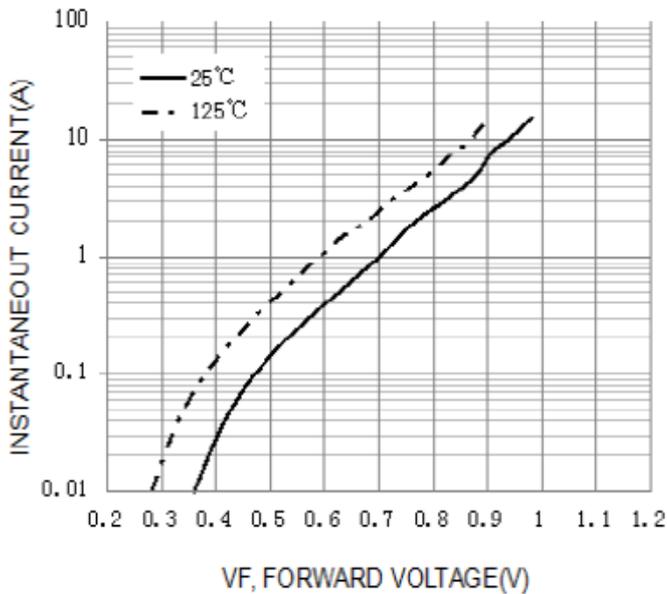


FIG. 4 TYPICAL REVERSE CHARACTERISTICS PER LEG

