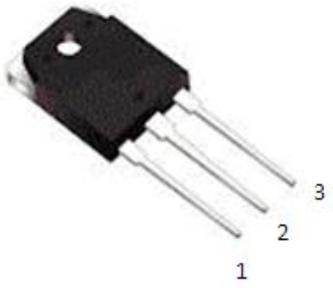
Schottky Barrier Rectifier

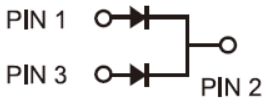
FEATURES

- Low power loss, high efficiency
- Low forward voltage drop
- High forward surge capability
- High frequency operation
- Excellent high temperature stability
- Trench MOS Schottky technology
- Suffix “H” indicates halogen free parts



MECHANICAL DATA

- Case: TO-3P
- Terminals: Pure tin plated, lead free
- Polarity: As marked
- Weight: Approximated 1.86 grams



Primary Characteristic	
I_O	2X15A
V_{RRM}	60V
I_{FSM}	275A
V_F@15A, T_J=125°C	0.65V
T_{Jmax}	150°C

Maximum Ratings Ta=25°C unless otherwise specified			
Characteristics	**Symbol**	**Value**	**Unit**
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	60	V
Working Peak Reverse Voltage	V_{RWM}	60	V
Maximum DC Blocking Voltage	V_{DC}	60	V
RMS Reverse Voltage	V_{RMS}	42	V
I_F=5A, T_J=25°C I_F=5A, T_J=125°C	V_F	0.78 0.65	V
Maximum Reverse Current at Rated V_{RRM} T_J=25°C T_J=125°C	I_R	 0.1 6	mA
Maximum Average Forward Rectified Current Total device Per diode	I_O	 30 15	A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	275	A
Operating Temperature Range	T_J	-65 to +150	°C
Storage Temperature Range	T_{STG}	-65 to +150	°C

Notes: (1) Pulse test: 300 μs pulse width, 1 % duty cycle

RATINGS AND CHARACTERISTICS CURVES

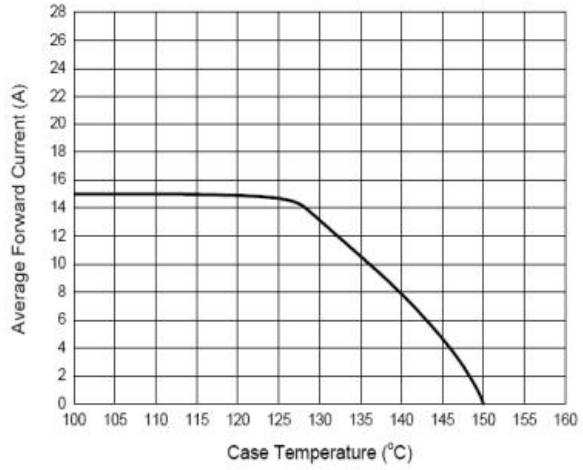


FIG1.MAXIMUM FORWARD CURRENT DERATING CURVE

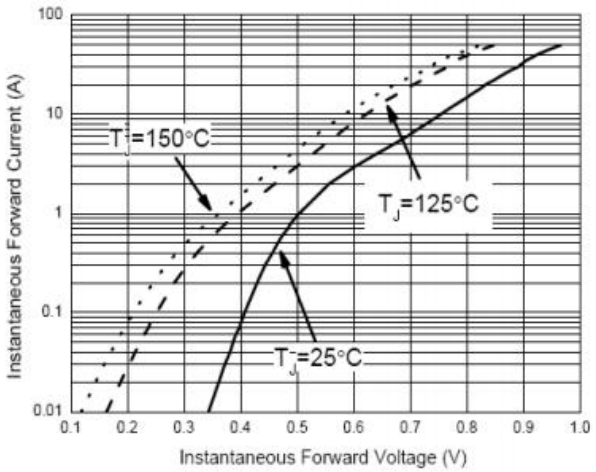


FIG2.TYPICAL FORWARD CHARACTERISTICS PER LEG

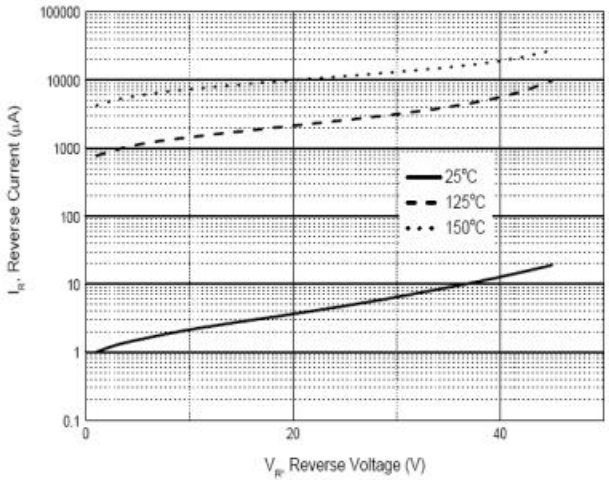


FIG3.TYPICAL REVERSE CHARACTERISTICS PER LEG

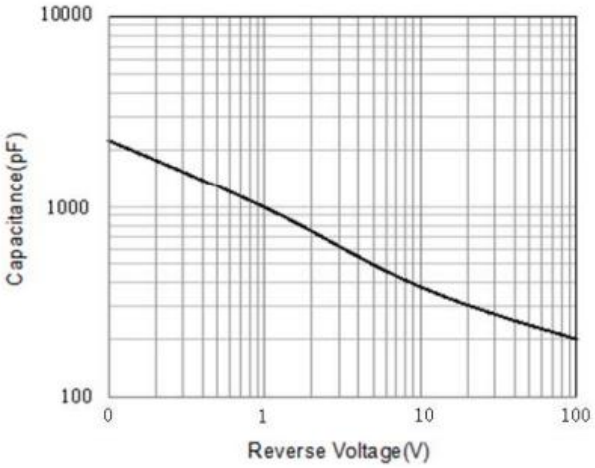


FIG4.TYPICAL JUNCTION CAPACITANCE

FIG5.PEAK FORWARD SURGE CURRENT

TO-3P PACKAGE OUTLINE