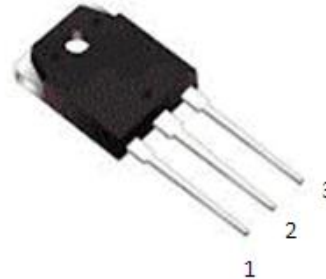


## Schottky Barrier Rectifier

### FEATURES

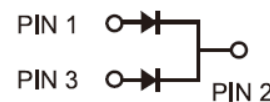
- Low power loss, high efficiency
- Low forward voltage drop
- High forward surge capability
- High frequency operation
- Excellent high temperature stability
- Trench MOS Schottky technology
- Suffix "H" indicates halogen free parts



### MECHANICAL DATA

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

Primary Characteristic	
$I_O$	2X20A
$V_{RRM}$	60V
$I_{FSM}$	400A
$V_F@20A, T_J=125^\circ C$	0.5V
$T_{Jmax}$	150°C



### Maximum Ratings $T_a=25^\circ C$ 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
Forward Voltage Drop $I_F=5A, T_J=25^\circ C$ $I_F=20A, T_J=25^\circ C$ $I_F=5A, T_J=125^\circ C$ $I_F=20A, T_J=125^\circ C$	$V_F$	0.38 0.58 0.3 0.5	V
Maximum Reverse Current at Rated $V_{RRM}$ $T_J=25^\circ C$ $T_J=125^\circ C$	$I_R$	0.2 50	mA
Maximum Average Forward Rectified Current Total device Per diode	$I_O$	40 20	A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	400	A
Operating Temperature Range	$T_J$	-65 to +150	°C
Storage Temperature Range	$T_{STG}$	-65 to +150	°C

Notes: (1) Pulse test: 300  $\mu s$  pulse width, 1 % duty cycle

**RATINGS AND CHARACTERISTICS CURVES**

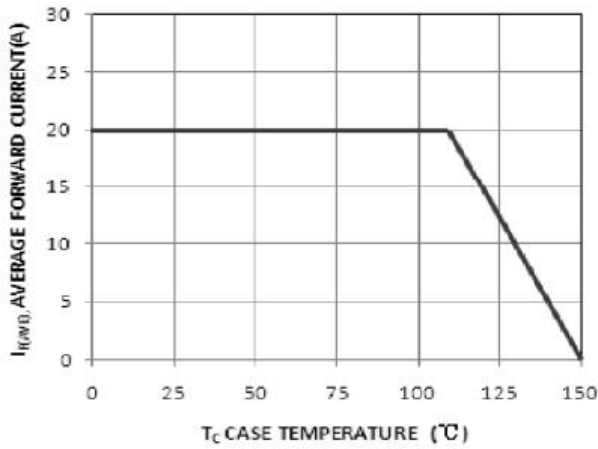


FIG1. MAXIMUM FORWARD CURRENT DERATING CURVE

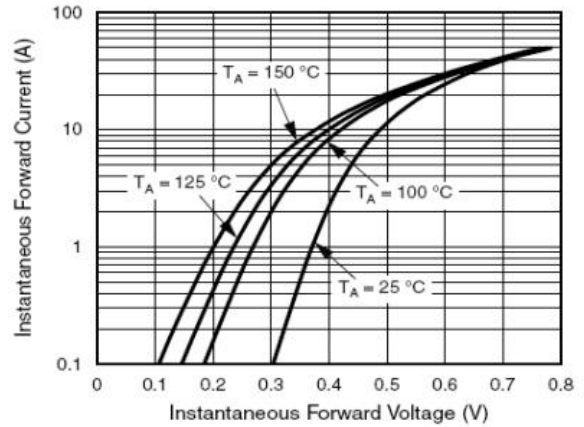


FIG2. TYPICAL FORWARD CHARACTERISTICS PER LEG

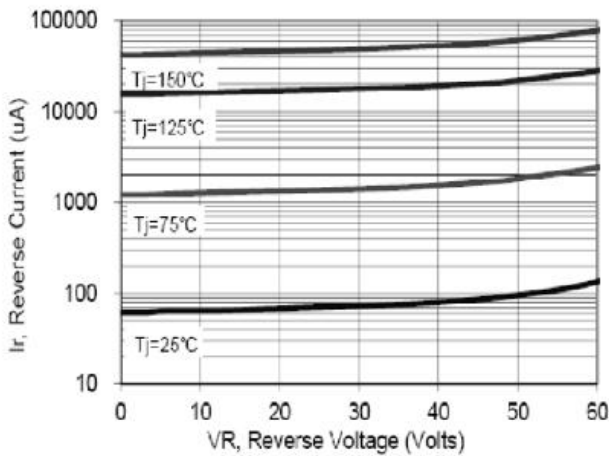


FIG3. TYPICAL REVERSE CHARACTERISTICS PER LEG

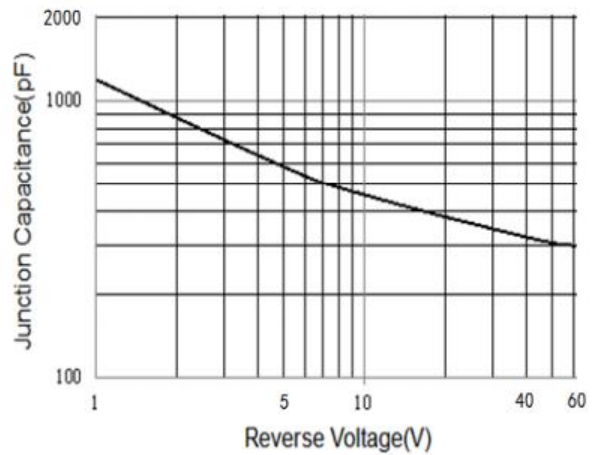


FIG4. TYPICAL JUNCTION CAPACITANCE

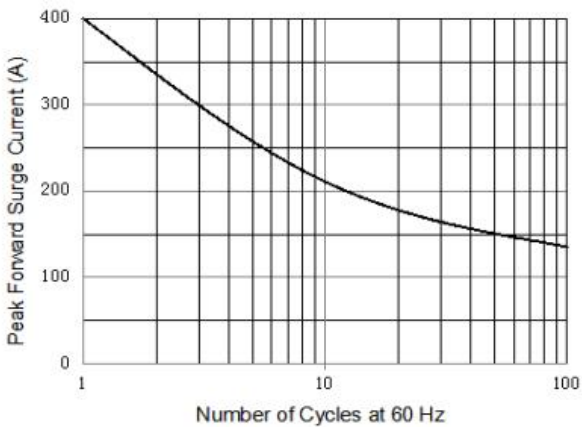


FIG5. PEAK FORWARD SURGE CURRENT

TO-3P PACKAGE OUTLINE

TO-3P

