LOW VF SCHOTTKY RECTIFIERS	REVERSE VOLTAGE 60 Volts FORWARD CURRENT 15 Amperes

FEATURES

- Guard Ring Die Construction for Transient Protection
- Low Power Loss,High Effciency
- High Surge Capability
- High Current Capability & Low Forward Voltage Drop
- Schottky Barrier Chip

MECHANICAL DATA

- Case: TO-277
- Polarity: As Marked

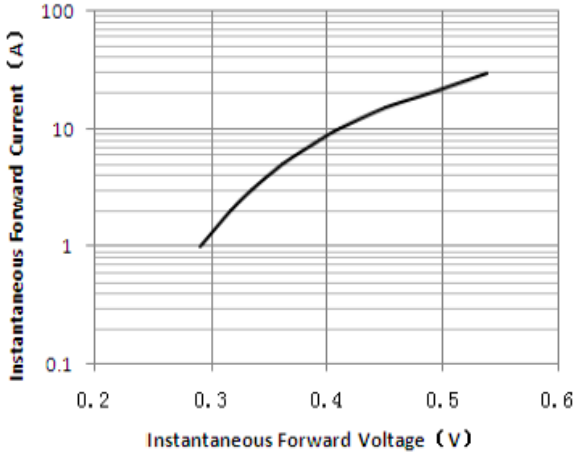
TO-277

Top View Bottom View

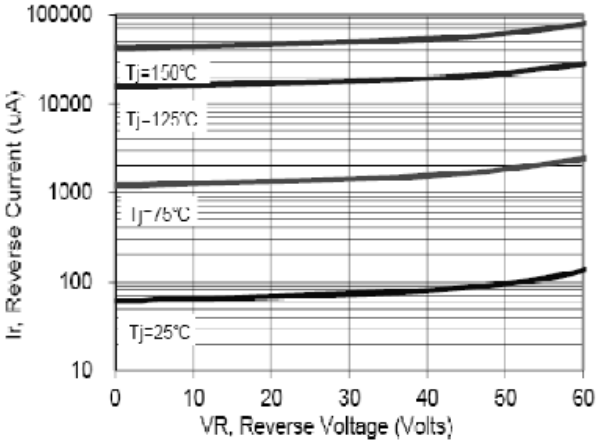
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS
Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

Characteristics	Symbol	S15U60TS	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	60	V
Maximum RMS Voltage	V_{RMS}	60	V
DC Blocking Voltage	V_R	60	V
Instantaneous Forward Voltage I_F=2A T_C=25°C I_F=5A T_C=25°C I_F=15A T_C=25°C	V_F	Typ. 0.32 0.38 0.52	V
Peak Reverse Current T_A=25°C at Rated DC Blocking Voltage T_A=125°C	I_R	0.3 20	mA
Average Output Rectifie Current	$I_{F(AV)}$	15	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	275	A
Typical Junction Capacitance	C_J	600	pF
Maximum Thermal Resistance	θ_{Ja}	31	°C/W
Junction and StorageTemperature Range	T_J, T_{STG}	-55 to +150	°C

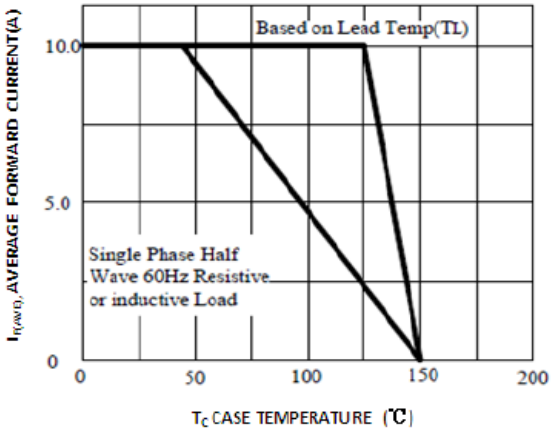
Rating and Characteristic Curves



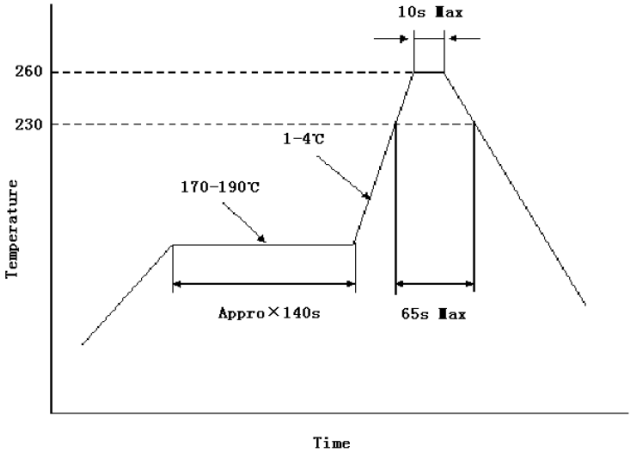
Typical Forward Voltage Per Diode



Typical Reverse Current Per Diode

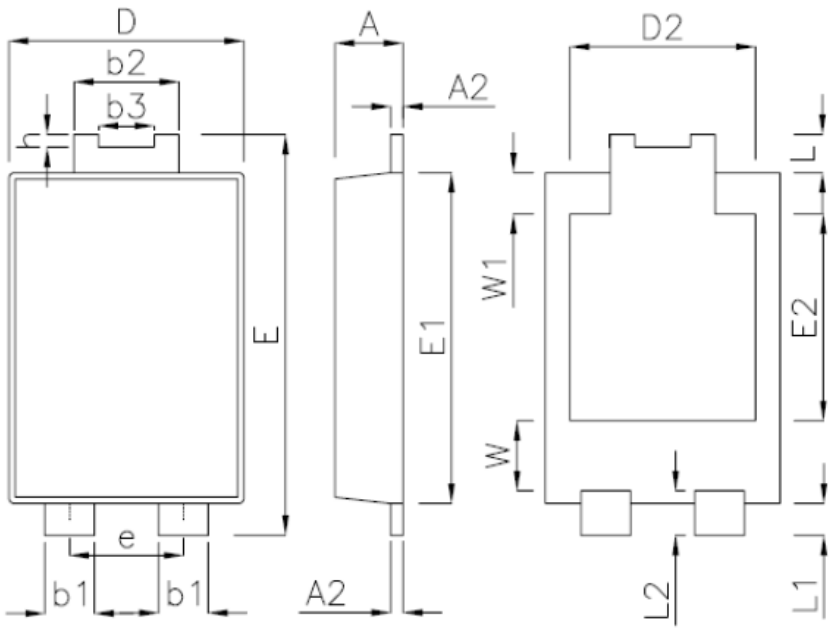


Average Forward Forward Current vs. Case Temperature Per Diode



Reflow Soldering Temperature Profile

TO-277 MECHANICAL DATA

UNIT: mm

SYMBOL	MIN	MAX	SYMBOL	MIN	MAX
A	1.05	1.2	e	1.65	1.95
A2	0.3	0.45	E	6.3	6.6
b1	0.8	1	E1	5.3	5.8
b2	1.7	1.9	E2	3.1	3.6
b3	0.7	0.9	L	0.5	0.7
D	3.85	4.3	L1	0.5	0.7
D2	2.9	3.3	L2	0.8	1.1
W	1.1	1.4	h	0.1	0.2
W1	0.3	0.5