

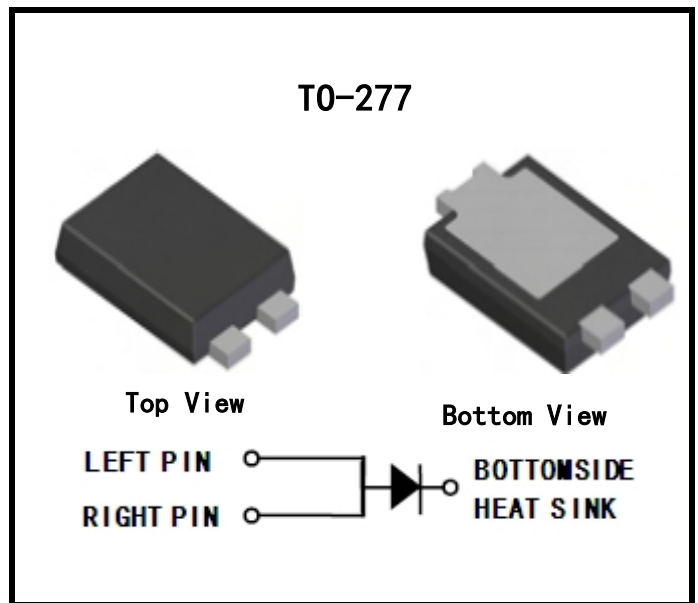


Ultra Low VF=0.40V at IF=5A

FEATURES

- * Schottky Barrier Chip
- * Guard Ring Die Construction for Transient Protection
- * Low Power Loss, High Efficiency
- * High Surge Capability
- * High Current Capability and Low Forward Voltage Drop
- * For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications

PACKAGE

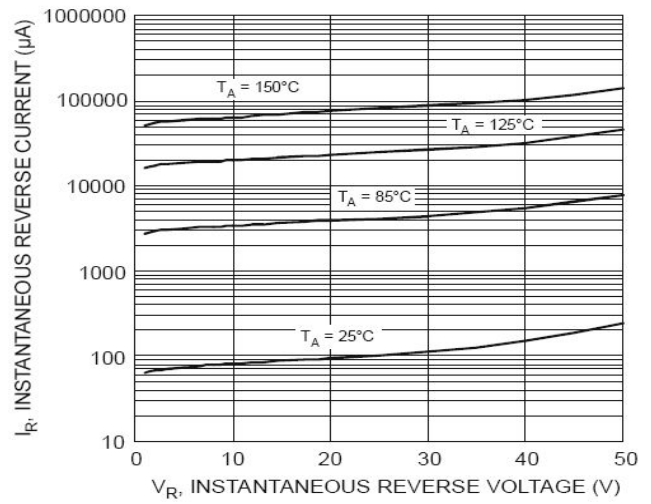
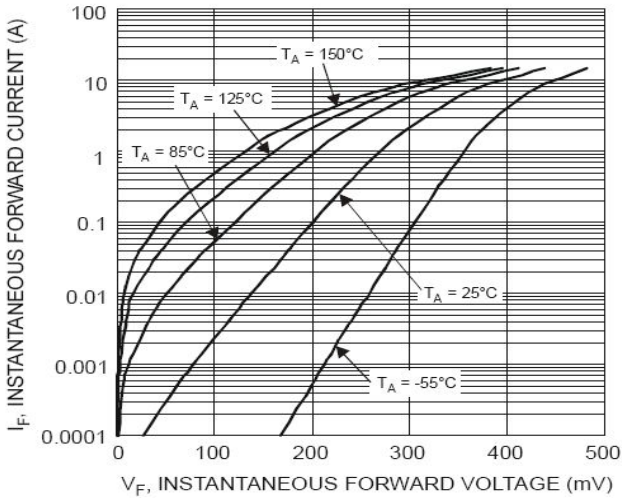


ELECTRICAL CHARACTERISTICS (Tamb=25°C)

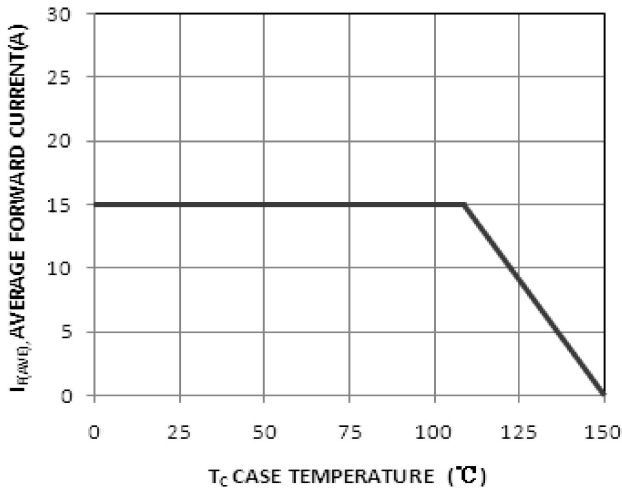
Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	50	V
DC Blocking Voltage	V_R	50	
Average Rectified Output Current	$I_{F(AV)}$	15	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	300	A
Maximum Instantaneous Forward Voltage @IF=5A, TC=25°C @IF=10A, TC=25°C @IF=15A, TC=25°C	V_F	MAX. 0.4 0.45 0.5	V
Peak Reverse Current @TA=25 °C	I_R	0.4	mA
at Rated DC Blocking Voltage @TA=125°C		50	
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to +150	°C
Typical Junction Capacitance	C_J	400	pF
Maximum Thermal Resistance	θ_{JA}	39	°C/W



Characteristics Curves



Typical Forward Voltage Per Diode

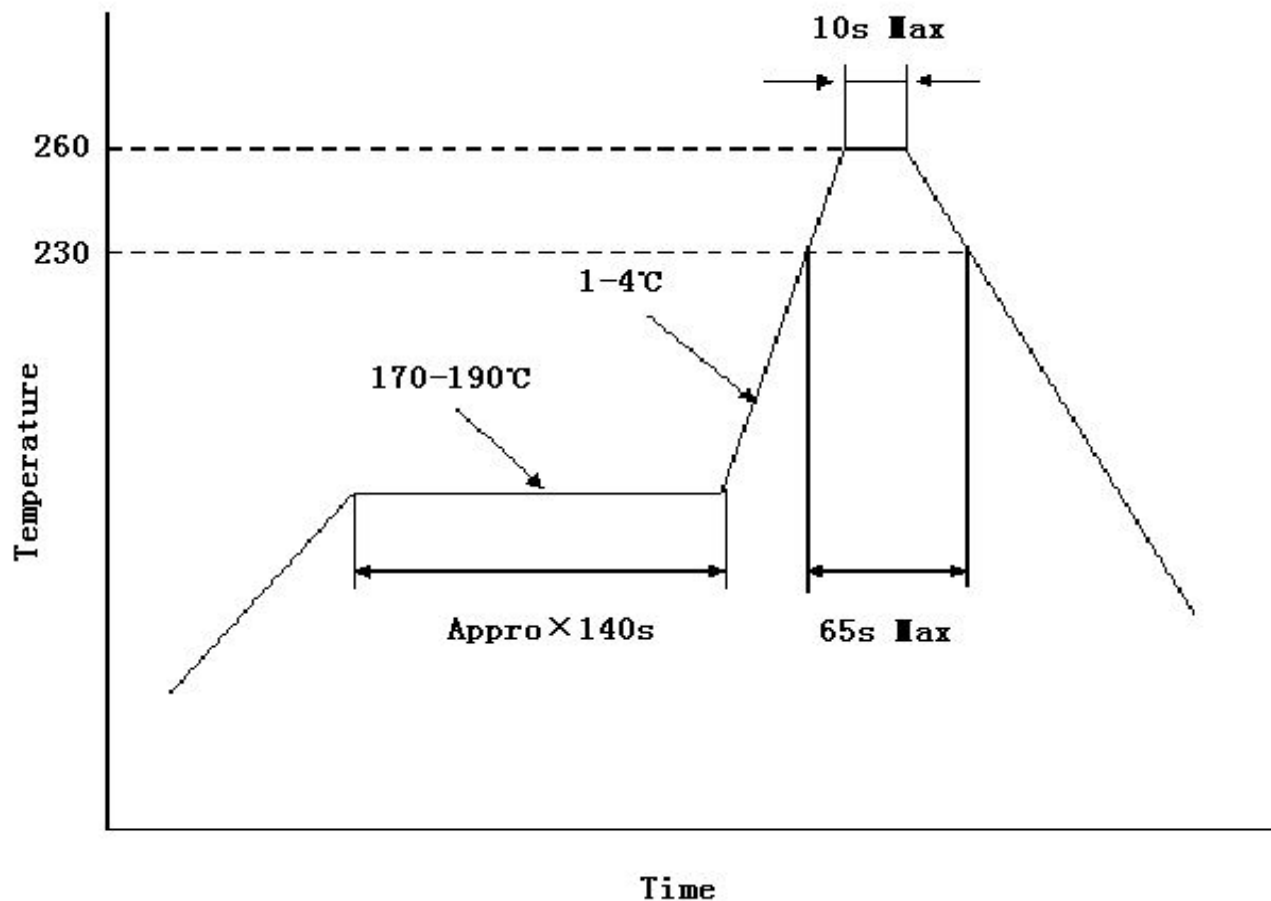


Average Forward Forward Current vs.
Case Temperature Per Diode

Typical Reverse Current 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			

