

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

MPL860GP

FEATURES

- Schottky barrier rectifier
- Guarding protection
- Low forward voltage
- Reverse energy tested
- High current capability
- Extremely low thermal resistance



Lead-free



MECHANICAL DATA

- Case: TO-277B molded plastic body
- Polarity: Color band denotes cathode end
- Mounting position: ANY

Maximum Ratings (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	MPL860GP	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	60	V
Maximum RMS voltage	V_{RMS}	42	V
Maximum DC blocking voltage	V_{DC}	60	V
Maximum average forward rectified current	$I_{F(AV)}$	8.0	A
Peak forward surge current 8.3ms single half sine -wave	I_{FSM}	100	A

Thermal Characteristics

Characteristic	Symbol	MPL860GP	UNITS
Maximum thermal resistance	$R_{\theta JA}$	3.2	°C/W
Total Capacitance (f=1.0MHZ , VR =4.0VDC)	C_T	400	PF
Operating and Storage temperature range	T_J T_{STG}	- 55 ---- +125	°C

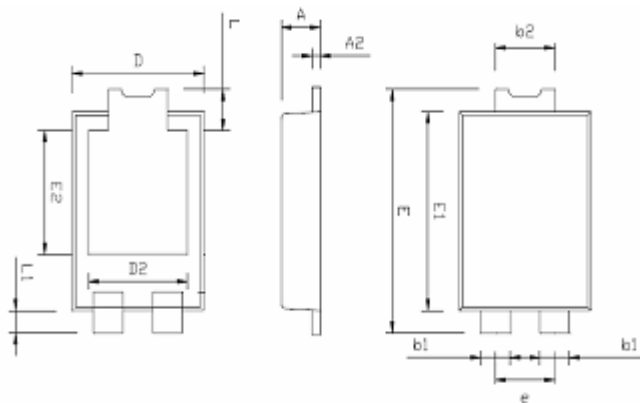
Electrical Characteristics (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	MPL860GP	UNITS
Maximum instantaneous forward voltage at $I_{FM}=5.0A$	V_F	0.7	V
Maximum DC reverse current $T_J=25^\circ C$	I_R	10	U A

**SURFACE MOUNT SCHOTTKY
BARRIER RECTIFIERS**

MPL860GP

PACKAGE OUTLINE DIMENSIONS



TO-277B		
Dim	Min	Max
A	1.00	1.30
A2	0.15	0.43
b1	0.75	1.05
b2	1.65	1.95
D	3.75	4.30
D2	2.80	3.20
E	6.35	6.70
e	1.65	1.95
E1	5.25	5.50
E2	3.05	3.55
L	0.85	1.30
L1	0.45	0.75
All Dimensions in mm		

PACKAGE INFORMATION

Device	Package	Shipping
MPL860GP	TO-277B	4000/Tape&Reel

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

MPL860GP

FIG. 1 - FORWARD CHARACTERISTICS

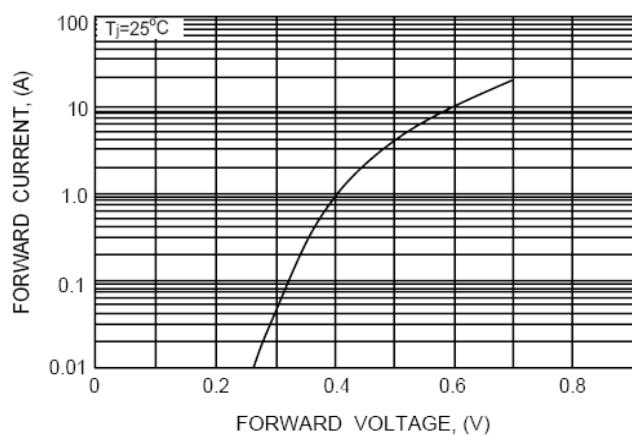


FIG. 2 - REVERSE CHARACTERISTICS

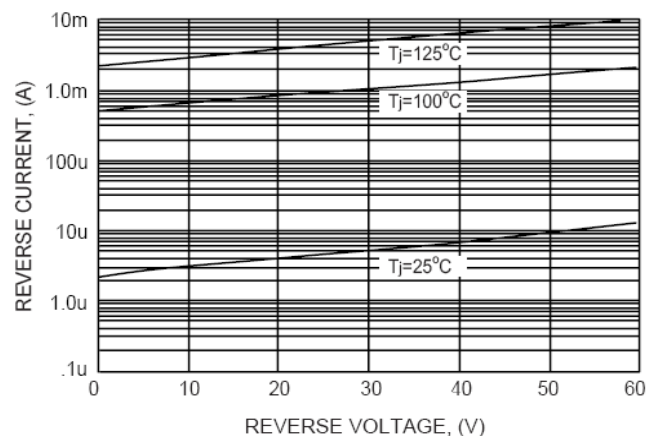


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

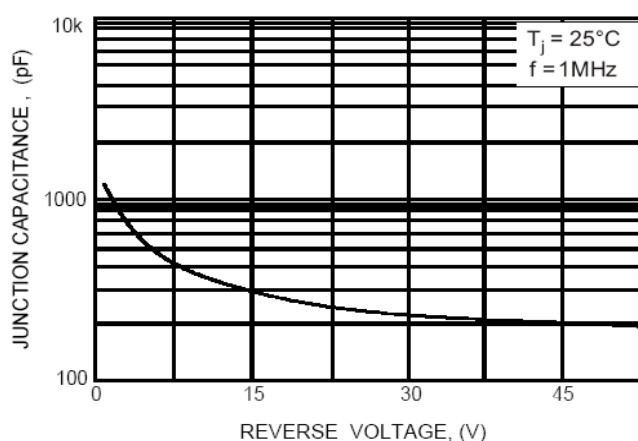


FIG. 4 - TYPICAL FORWARD CURRENT
DERATING CURVE

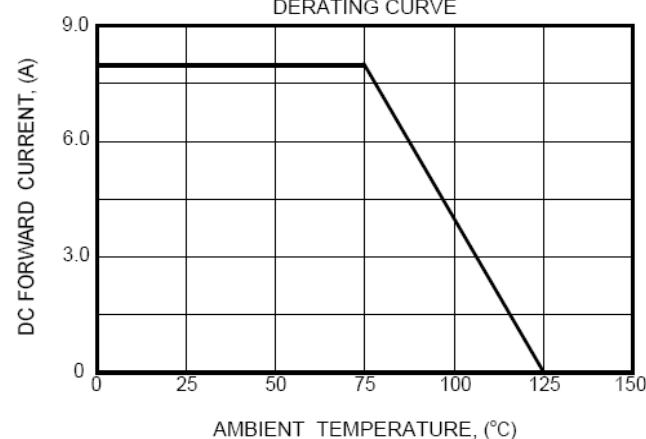


FIG. 5 - MAX. NON-REPETITIVE PEAK FORWARD
SURGE CURRENT

