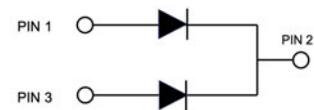


Features

- Trench MOS Schottky technology
- Low forward voltage drop, low power losses
- High efficiency operation
- RoHS compliant



TO-262L



Schematic Diagram

Mechanical Data

- Case: TO-262L
- Case material: Epoxy meets UL 94V-0 flammability rating
- Polarity: As marked on case body

Maximum Ratings (T_A=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	120	V
Maximum Average Forward Rectified Current Per Device	I _{F(AV)}	20	A
Maximum Average Forward Rectified Current Per Diode		10	
Peak Forward Surge Current (8.3ms Single Half Sine - Wave Superimposed on Rated Load Per Diode)	I _{FSM}	120	A
Operating Junction Temperature Range	T _J	-55 to + 150	°C
Storage Temperature Range	T _{STG}	-55 to + 150	°C

Electrical Characteristics (T_A=25°C unless otherwise noted)

Parameter	Test Conditions	Symbol	Value		Unit
			Typ.	Max.	
Instantaneous Forward Voltage Per Diode	I _F =5A, T _A =25°C	V _F	0.65	-	V
	I _F =10A, T _A =25°C		0.80	0.87	
	I _F =5A, T _A =125°C		0.55	-	
	I _F =10A, T _A =125°C		0.62	0.70	
Reverse Current Per Diode	V _R =V _{RRM} , T _A =25°C	I _R	5	100	uA
	V _R =V _{RRM} , T _A =125°C		2	15	mA
Thermal Resistance Per Device, Junction to Ambient		R _{θJA}	57		°C/W
Thermal Resistance Per Device, Junction to Case		R _{θJC}	2		°C/W

Ratings and Characteristics Curves ($T_A = 25^\circ\text{C}$ unless otherwise noted)

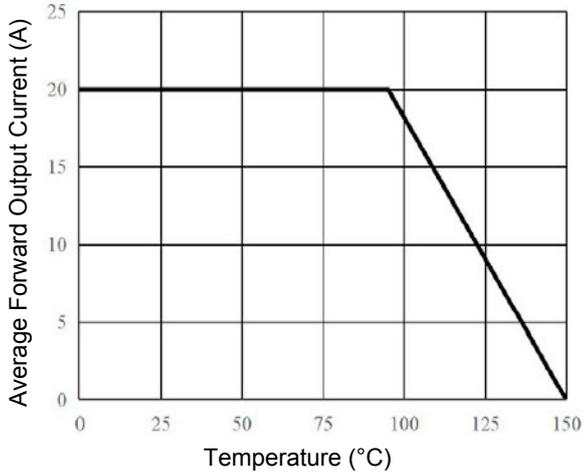


Figure 1. Forward Output Current Derating Curve

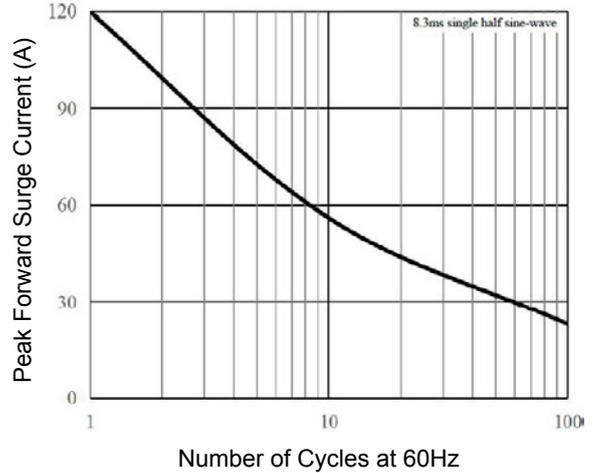


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

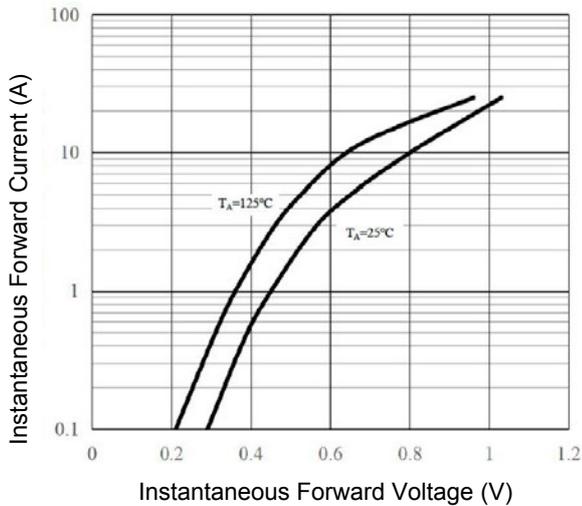


Figure 3. Typical Forward Characteristics

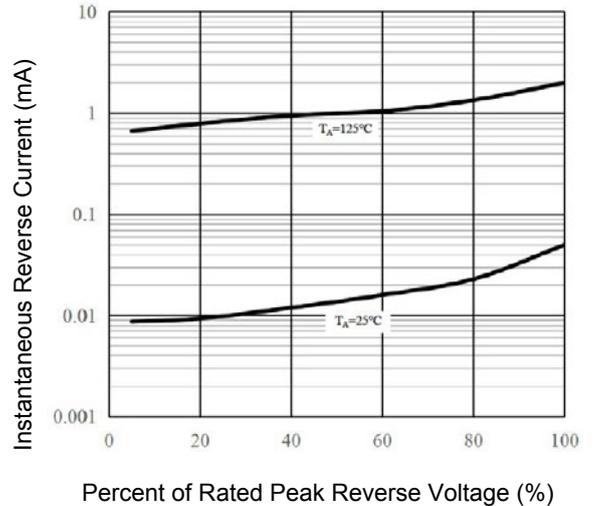
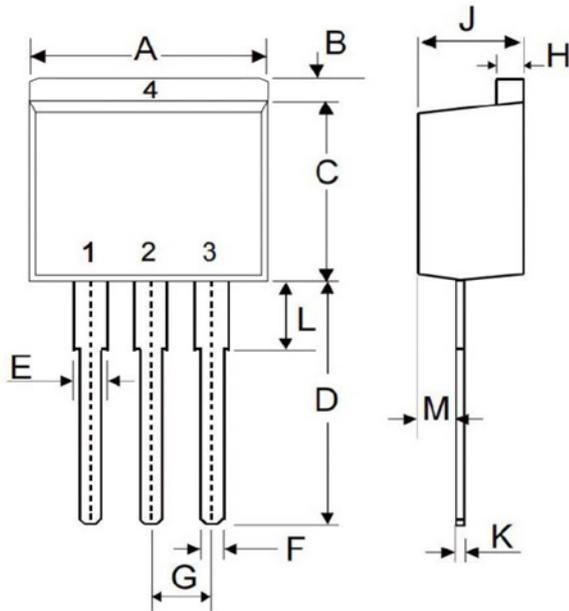


Figure 4. Typical Reverse Characteristics

Package Outline Dimensions (TO-262L)



Symbol	Dimensions in Millimeters		Dimensions in Inches	
	Min	Max	Min	Max
A	9.900	10.400	0.390	0.409
B	1.270		0.049	
C	8.500	8.900	0.335	0.350
D	13.300	13.800	0.524	0.543
E	1.120	1.420	0.044	0.056
F	0.660	0.960	0.026	0.038
G	2.540		0.100	
H	1.120	1.420	0.044	0.056
J	4.320	4.820	0.170	0.190
K	0.280	0.520	0.011	0.200
L	4.460	4.860	0.176	0.191
M	1.430	1.630	0.056	0.064