

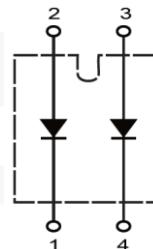
## Schottky Rectifier Module Type 160 A

**V<sub>RRM</sub> = 120 V**

**I<sub>F(AV)</sub> = 160 A**

### Features

- High Surge Capability
- Type 120 V V<sub>RRM</sub>
- Isolation Type Package
- Electrically Isolated Base Plate
- Not ESD Sensitive



**SOT-227 Package**



### Maximum ratings

Parameter	Symbol	Conditions	Value	Unit
Maximum recurrent peak reverse voltage	V <sub>RRM</sub>		120	V
Maximum DC blocking voltage	V <sub>DC</sub>		120	V
Maximum RMS Voltage	V <sub>RMS</sub>		84	V
Operating temperature	T <sub>j</sub>		-40 to 150	°C
Storage temperature	T <sub>stg</sub>		-40 to 150	°C

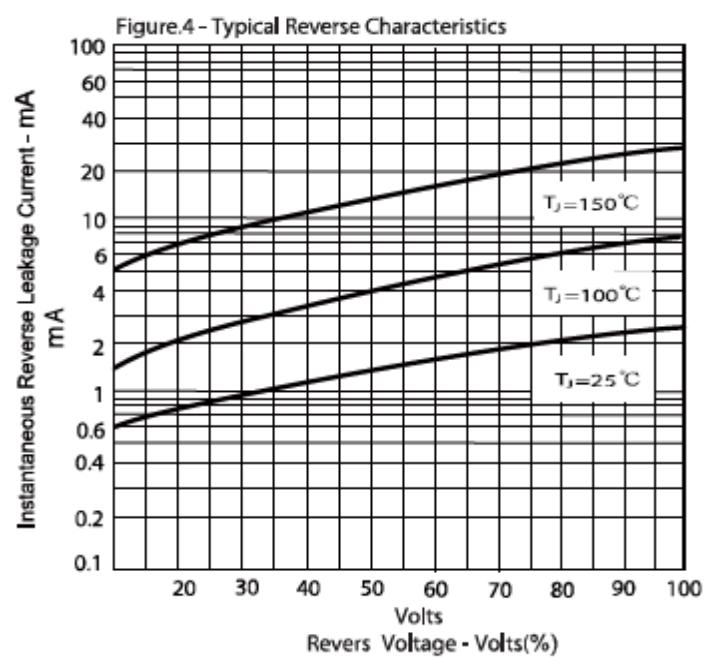
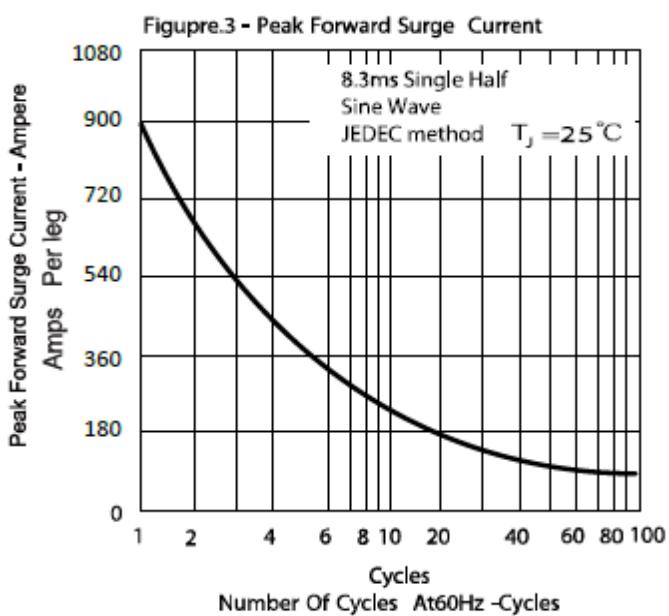
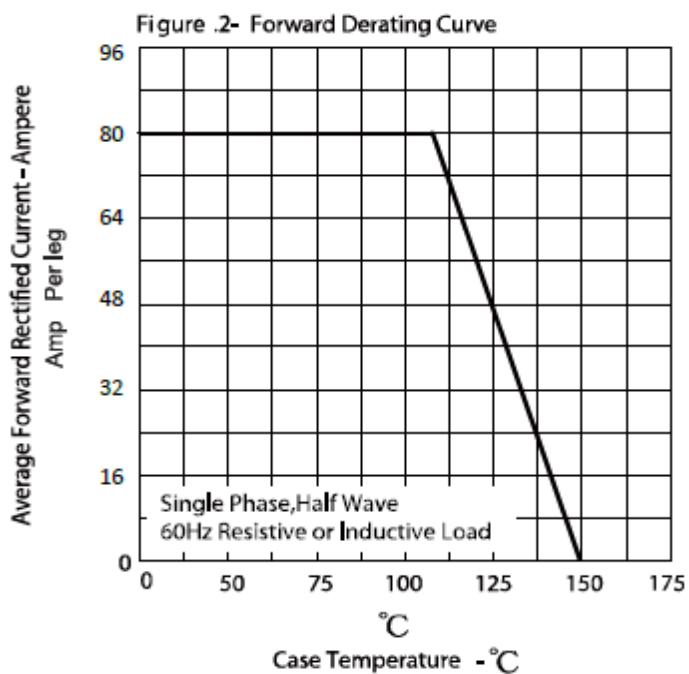
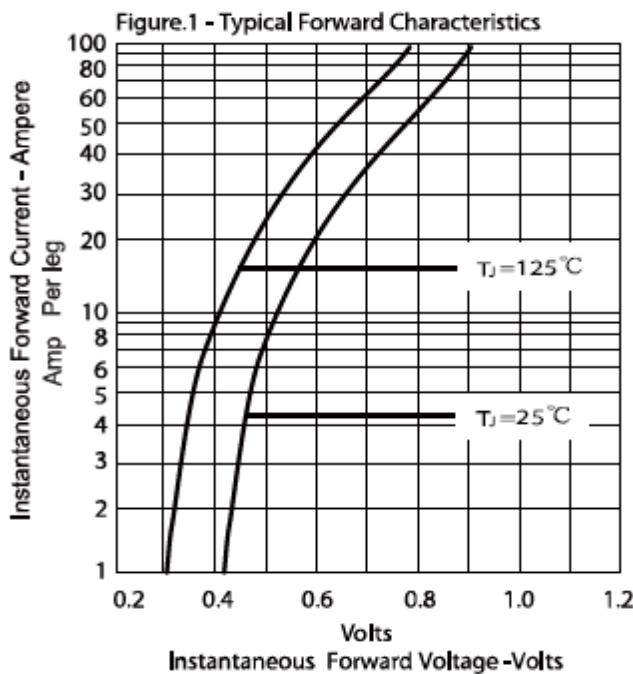
### Electrical characteristics at 25 °C, unless otherwise specified

Parameter	Symbol	Conditions	Value	Unit
Average forward current (per pkg)	I <sub>F(AV)</sub>	T <sub>C</sub> = 110 °C	160	A
Peak forward surge current (per leg)	I <sub>FSM</sub>	8.3 ms, half sine	900	A
Maximum instantaneous forward voltage* (per leg)	V <sub>F</sub>	I <sub>FM</sub> = 80 A, T <sub>j</sub> = 25 °C	0.88	V
		I <sub>FM</sub> = 80 A, T <sub>j</sub> = 125 °C	0.76	V
Maximum instantaneous reverse current at rated DC blocking voltage (per leg)	I <sub>R</sub>	T <sub>j</sub> = 25 °C	3	mA
		T <sub>j</sub> = 100 °C	10	mA
		T <sub>j</sub> = 150 °C	30	mA
Isolation voltage	V <sub>ISO</sub>	A.C. 1 minute	2500	V

### Thermal characteristics

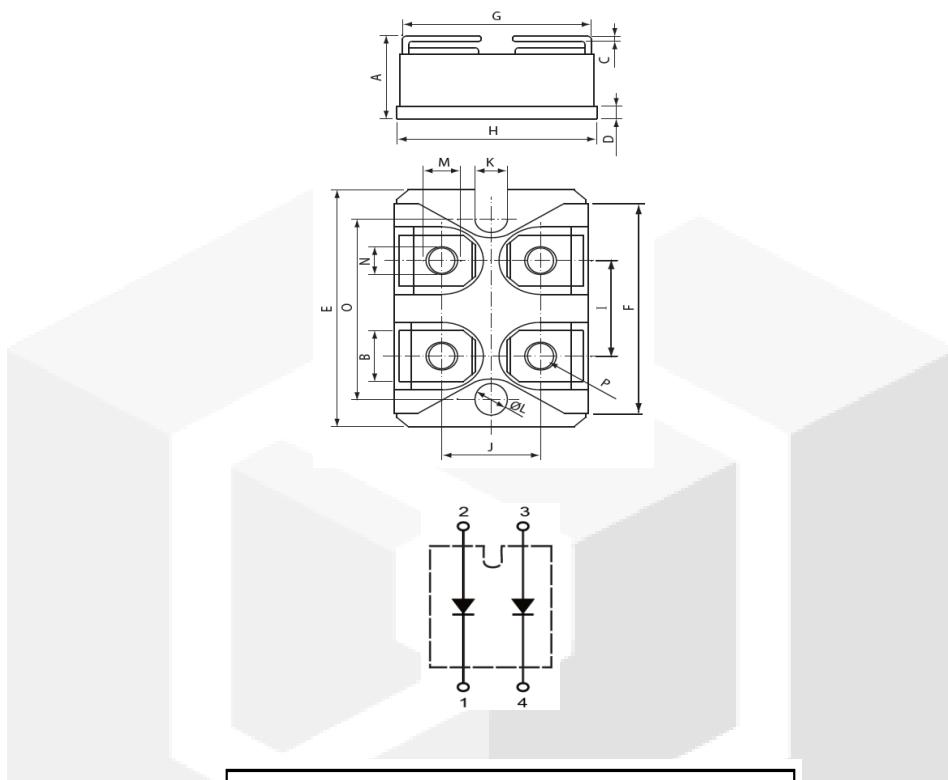
Maximum thermal resistance junction to case (per leg)	R <sub>θjc</sub>	0.60	°C/W
---	------------------	------	------

\* Pulse Test: Pulse width 300 µs, Duty < 2 %



## Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



DIM	DIMENSIONS			
	INCHES		MM	
	MIN	MAX	MIN	MAX
A	.500	.519	12.70	13.20
B	.307	.322	7.80	8.20
C	.029	.033	.75	.84
D	.077	.082	1.95	2.10
E	1.487	1.502	37.80	38.20
F	1.250	1.258	31.75	32.00
G	.931	.956	23.65	24.30
H	.996	1.007	25.30	25.60
I	.586	.594	14.90	15.10
J	.492	.516	12.50	13.10
K	.161	.169	4.10	4.30
L	.161	.169	4.10	4.30
M	.181	.191	4.60	4.95
N	.165	.177	4.20	4.50
O	1.184	1.192	30.10	30.30
P	M4*8			