

## DATA SHEET

### SCHOTTKY BARRIER RECTIFIERS

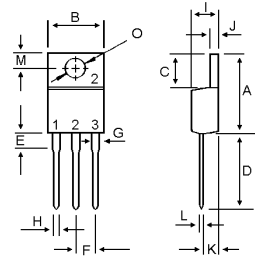
<b>VOLTAGE</b>	100 Volts	<b>CURRENT</b>	30.0 Amperes	<b>TO-220AB</b>	<b>Unit:mm</b>
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#### FEATURES

- Low Forward Voltage.
- Low Forward Voltage Drop.
- Guard-Ring for Stress Protection.
- High Current Capability.
- Low Power Loss, High Efficiency.

#### MECHANICAL DATA

- Case: T0-220AB Molded Plastic
- Polarity: Symbols molded or marked on body
- Mounting position : Any



DIM	MILLIMETERS	
	MIN	MAX
A	14.68	15.32
B	9.78	10.42
C	5.02	6.52
D	13.06	14.62
E	3.57	4.07
F	2.42	2.66
G	1.12	1.36
H	0.72	0.96
I	4.22	4.98
J	1.14	1.38
K	2.20	2.98
L	0.33	0.55
M	2.48	2.98
O	3.70	3.90

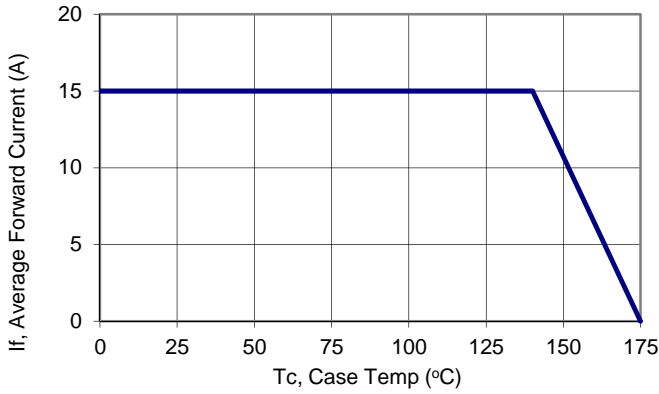


In compliance with EU RoHS 2002/95/EC directives

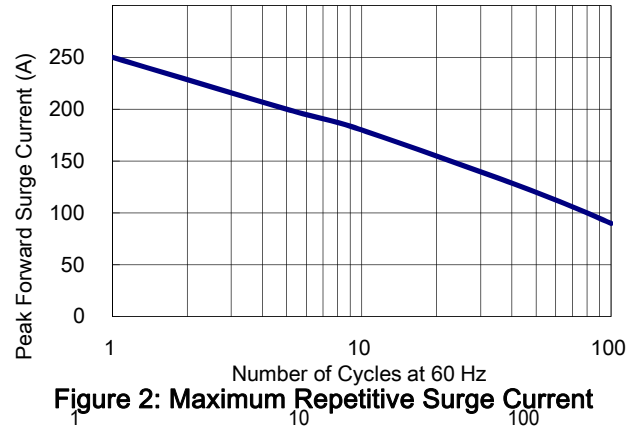
#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

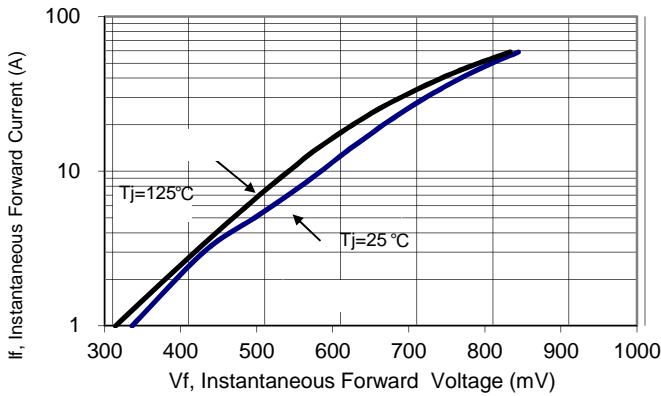
Characteristic	Symobl	P30L100CT	Unit
Peak Repetitive Reverse Voltage	VRRM		
Working Peak Reverse Voltage	VRWM	100	V
DC Blocking Voltage	VR		
Maximum RMS Voltage	VRMS	70	V
Maximum Average Forward Rectified Current	I (AV)	30	A
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	IFSM	250	A
Maximum forward voltage	IF=15A	T <sub>J</sub> = 25°C	V
		T <sub>J</sub> = 125°C	
Maximum DC Reverse Current at Rated DC Blocking Voltage	@TC=25°C		MA
		@TC=125°C	
Typical Thermal Resistance	R0JC	2.0	°C/W
Operating Temperature Range	TJ	-65to+150	°C
Storage Temperature Range	TSTG	-65to+150	°C



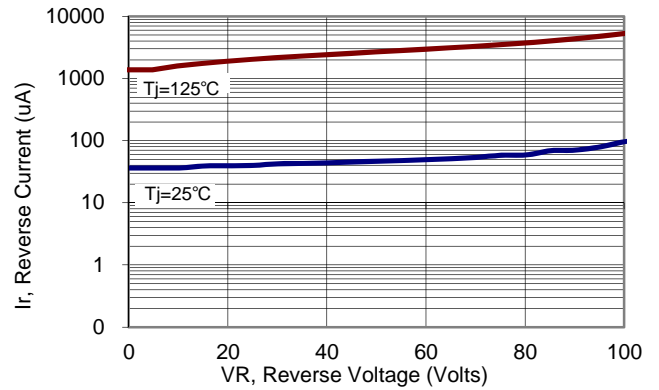
**Figure 1: Current Derating, Case**



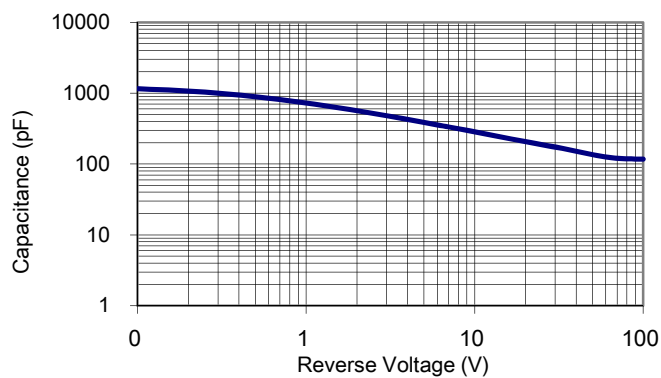
**Figure 2: Maximum Repetitive Surge Current**



**Figure 3: Typical Forward Voltage**



**Figure 4: Typical Reverse Current**



**Figure 5: Typical Junction Capacitance**