

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 100 Volts FORWARD CURRENT - 30 Amperes

FEATURES

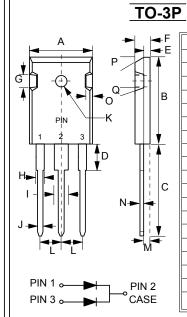
- Metal of silicon rectifier, majority carrier conducton
- Guard ring for transient protection
- Low power loss, high efficiency
- Low leakage current
- High current capability, low VF
- High surge capacity
- Plastic package has UL flammability classification 94V-0

MECHANICAL DATA

Case: TO-3P molded plasticPolarity: As marked on the bodyWeight: 0.2 ounces, 5.6 grams

• Mounting position : Any

• Max. mounting torque = 0.5 N.m (5.1 Kgf.cm)



TO-3P				
DIM.	MIN. MAX.			
Α	15.75 16.25			
В	21.25 21.75			
С	19.60 20.10			
D	3.78	4.38		
Е	1.88	2.08		
F	4.87	5.13		
G	4.4TYP.			
Н	1.90	2.16		
- 1	2.93	3.22		
J	1.12	1.22		
K	2.90 Ø	3.20 Ø		
L	5.20	5.70		
M	2.10	2.40		
N	0.51	0.76		
0	1.93	2.18		
Р	20°TYP			
Q	10°TYP			
All Dimensions in millimeter				

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	MBR30100PT	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	100	V
Maximum RMS Voltage	VRMS	70	V
Maximum DC Blocking Voltage	VDC	100	V
Maximum Average Forward Rectified Current (See Fig.1) Tc =125°C	I(AV)	30	А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	IFSM	250	А
Voltage Rate of Change (Rated VR)	dv/dt	10000	V/us
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	VF	0.80 0.67 0.93 0.80	V
Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ =25°C @TJ =125°C	lR	100 5	uA mA
Typical Thermal Resistance (Note 2)	Rejc	1.4	°C/W
Typical Junction Capacitance per element (Note 3)	Cı	300	pF
Operating Temperature Range	TJ	-65 to +175	°C
Storage Temperature Range	Тѕтс	-65 to +175	°C

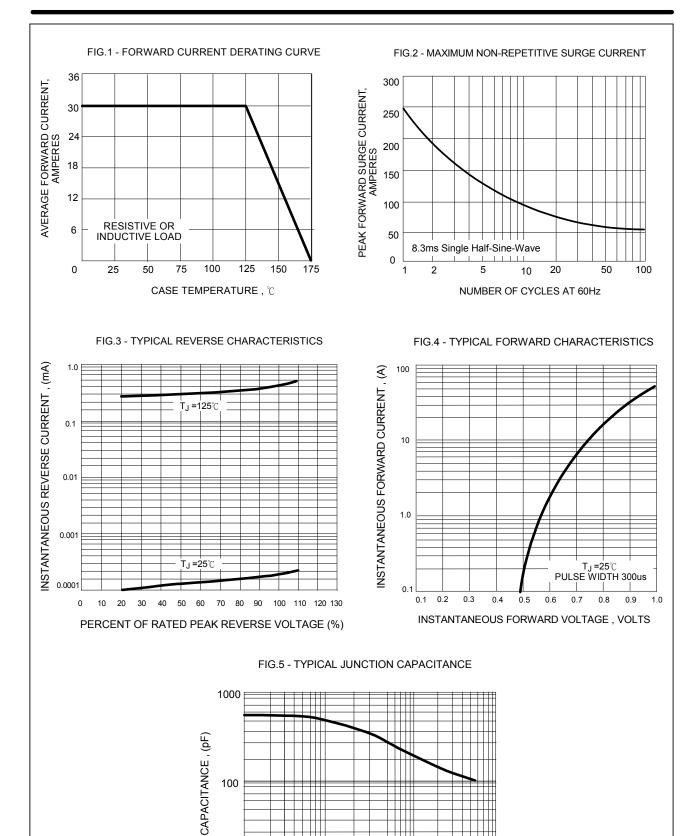
NOTES: 1.300us Pulse Width, 2% Duty Cycle.

2. Thermal Resistance Junction to Case.

3. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

REV. 2, Oct-2010, KTHD18





T」=25℃, f=1MHz

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REVERSE VOLTAGE, VOLTS

100

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0.1



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