

SR3040 thru SR3060

30.0 Amp Low VF Schottky Barrier Rectifier

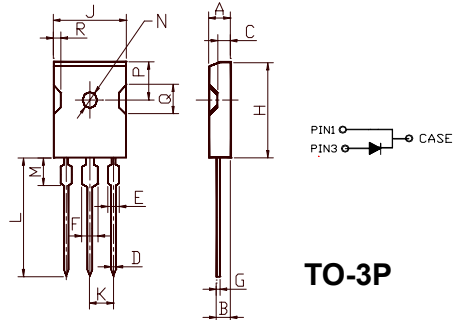
40 Volts to 60 Volts

Features

- * Low forward voltage drop
- * High current capability
- * High reliability
- * High surge current capability
- * Epitaxial construction

Mechanical Data

- * Case: Molded Plastic
- * Epoxy: UL 94-0 rate flame retardant
- * Lead: Lead solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity: As Marked
- * Mounting position: Any
- * Weight: 6 grams


TO-3P

Dim	Millimeter		Inches	
	Min.	Max	Min.	Max.
A	4.70	5.30	0.185	0.209
B	2.79	3.18	0.110	0.125
C	1.50	2.50	0.059	0.098
D	1.00	1.40	0.040	0.055
E	2.00	2.40	0.079	0.094
F	3.00	3.40	0.118	0.133
G	0.400	0.800	0.016	0.031
H	21.8	22.4	0.860	0.883
J	15.9	16.5	0.627	0.650
K	5.45	---	0.215	---
L	20.2	20.6	0.795	0.810
M	4.00	4.60	0.157	0.180
N	3.00	3.40	0.118	0.133
P	6.80	7.62	0.268	0.300
Q	4.44	5.30	0.175	0.210
R	1.72	2.03	0.068	0.080

Symbol	Characteristics	SR3040	SR3045	SR3060	Unit
VRRM	Maximum Recurrent Peak Reverse Voltage	40	45	60	V
VRM	Maximum DC Blocking Voltage	40	45	60	V
VR(RMS)	Maximum RMS Voltage	28	32	42	V
VF	Maximum Forward Voltage Drop @ 30.0A (Note 1)	0.55		0.70	V
IF(AV)	Average Forward Current	30			A
IFSM	8.3ms Single Half-Sine-Wave Peak Forward Surge Current	300			A
IR	Maximum DC Reverse Current at Rated DC Blocking Voltage	@ TJ=25°C	0.5		mA
		@TJ=125°C	50		
RthJC	Typical Thermal Resistance (Note 2)	3.0			°C/ W
CJ	Typical Junction Capacitance (Note 3)	-			pF
TJ	Operating Temperature Range	-55to+125			°C
Tstg	Storage Temperature Range	-55to+150			°C

NOTES: 1. 300us Pulse Width, Duty Cycle 1%.
 2. Thermal Resistance Junction To Case.
 3. Measured At 1.0MHz And Applied Reverse Voltage Of 4.0V DC.