

# SCHOTTKY BARRIER RECTIFIERS

T-03-21

94 DE 2848793 0000268 0

OPERATING TEMPERATURE RANGE

20 to 45V -65°C to +125°C

50 and 60V -65°C to +150°C

STORAGE TEMPERATURE RANGE -65°C to +150°C

| TYPE | Maximum Peak Reverse Voltage | Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz |    | Maximum Forward Peak Surge Current @ 8.3ms Superimposed | Maximum Reverse Current @ PRV   |    | Maximum Forward Voltage @ 25°C T <sub>A</sub> |                 |
|------|------------------------------|-------------------------------------------------------------------|----|---------------------------------------------------------|---------------------------------|----|-----------------------------------------------|-----------------|
|      | PRV                          | I <sub>o</sub> @ T <sub>C</sub>                                   |    | I <sub>FM</sub> (Surge)                                 | I <sub>R</sub> @ T <sub>C</sub> |    | I <sub>FM</sub>                               | V <sub>FM</sub> |
|      | V <sub>PK</sub>              | A <sub>AV</sub>                                                   | °C | A <sub>PK</sub>                                         | mAdc                            | °C | A <sub>PK</sub>                               | V <sub>PK</sub> |

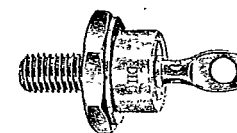
## 40/50 AMPERES SCHOTTKY/TO-3P



|        |    |    |     |     |    |    |    |      |
|--------|----|----|-----|-----|----|----|----|------|
| SR4020 | 20 | 40 | 95  | 300 | 10 | 25 | 20 | 0.7  |
| SR4030 | 30 | 40 | 95  | 300 | 10 | 25 | 20 | 0.7  |
| SR4040 | 40 | 40 | 95  | 300 | 10 | 25 | 20 | 0.7  |
| SR4050 | 50 | 40 | 125 | 300 | 10 | 25 | 20 | 0.8  |
| SR5020 | 20 | 50 | 100 | 400 | 10 | 25 | 25 | 0.55 |
| SR5030 | 30 | 50 | 100 | 400 | 10 | 25 | 25 | 0.55 |
| SR5040 | 40 | 50 | 125 | 400 | 10 | 25 | 25 | 0.55 |
| SR5050 | 50 | 50 | 125 | 400 | 10 | 25 | 25 | 0.65 |

NOTE: 1. Standard Type = Common Cathode, Common Anode = Suffix "A", Doubler Connection = Suffix "D".

2. PIV Rating 60V Available By Special Order.

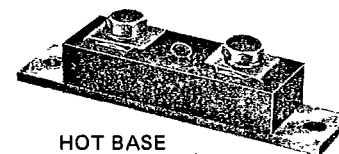


## 60/75 AMPERES SCHOTTKY/DO-5

|         |    |    |     |      |    |    |    |        |
|---------|----|----|-----|------|----|----|----|--------|
| NSD6020 | 20 | 60 | 120 | 800  | 10 | 25 | 60 | *0.60  |
| NSD6030 | 30 | 60 | 120 | 800  | 10 | 25 | 60 | *0.60  |
| NSD6035 | 35 | 60 | 120 | 800  | 10 | 25 | 60 | *0.60  |
| NSD6040 | 40 | 60 | 120 | 800  | 10 | 25 | 60 | *0.60  |
| NSD6045 | 45 | 60 | 120 | 800  | 10 | 25 | 60 | *0.60  |
| NSD6050 | 50 | 60 | 120 | 800  | 10 | 25 | 60 | *0.60  |
| NSD7520 | 20 | 75 | 120 | 1000 | 10 | 25 | 75 | **0.56 |
| NSD7530 | 30 | 75 | 120 | 1000 | 10 | 25 | 75 | **0.56 |
| NSD7535 | 35 | 75 | 120 | 1000 | 10 | 25 | 75 | **0.56 |
| NSD7540 | 40 | 75 | 120 | 1000 | 10 | 25 | 75 | **0.56 |
| NSD7545 | 45 | 75 | 120 | 1000 | 10 | 25 | 75 | **0.56 |
| NSD7550 | 50 | 75 | 120 | 1000 | 10 | 25 | 75 | **0.56 |

NOTE: 1. \*V<sub>F</sub> TEST @ T<sub>C</sub> = 125°C, \*\*V<sub>F</sub> TEST @ T<sub>C</sub> = 150°C.

2. Suffix "R" for Reverse Polarity.



## 120/200 AMPERES SCHOTTKY MODULE/TO-244 (SRM)

HOT BASE

|         |    |     |     |      |    |    |     |      |
|---------|----|-----|-----|------|----|----|-----|------|
| SRM1220 | 20 | 120 | 100 | 900  | 20 | 25 | 120 | 0.89 |
| SRM1230 | 30 | 120 | 100 | 900  | 20 | 25 | 120 | 0.89 |
| SRM1235 | 35 | 120 | 100 | 900  | 20 | 25 | 120 | 0.89 |
| SRM1240 | 40 | 120 | 100 | 900  | 20 | 25 | 120 | 0.89 |
| SRM1245 | 45 | 120 | 100 | 900  | 20 | 25 | 120 | 0.89 |
| SRM1250 | 50 | 120 | 100 | 900  | 20 | 25 | 120 | 0.89 |
| SRM2020 | 20 | 200 | 125 | 2000 | 40 | 25 | 200 | 0.80 |
| SRM2030 | 30 | 200 | 125 | 2000 | 40 | 25 | 200 | 0.80 |
| SRM2035 | 35 | 200 | 125 | 2000 | 40 | 25 | 200 | 0.80 |
| SRM2040 | 40 | 200 | 125 | 2000 | 40 | 25 | 200 | 0.80 |
| SRM2045 | 45 | 200 | 125 | 2000 | 40 | 25 | 200 | 0.80 |
| SRM2050 | 50 | 200 | 125 | 2000 | 40 | 25 | 200 | 0.80 |

NOTE: Standard Type = Common Cathode, Common Anode = Suffix "A", Doubler Connection = Suffix "D".