

# nae Inc.

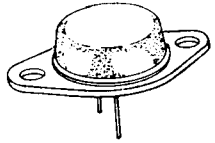
69 BENNETT STREET • LYNN, MASSACHUSETTS 01905

## Specification Sheet

FAST RECOVERY  
& STANDARD

NSR8140  
SERIES

TO-3



### 30 AMP CENTER TAPPED RECTIFIER

- EXCEPTIONALLY LOW VF
- LOW THERMAL RESISTANCE
- REVERSE POLARITY AVAILABLE
- HI SURGE CAPABILITY

#### FAST RECOVERY SERIES

Parameter		NSR8140	NSR8141	NSR8142	NSR8143
Peak Reverse Volts	VR	100V	200V	400V	600V
Peak Surge ½ Cycle	IS	*150A			
Max Inst Forward Volts	VF	1.4V			
Max Reverse Current t = 100°C	IR	1.0mA			
Oper & Storage Temp Range		-65°C to +150°C			
Reverse Recovery Time Max	trr	200ns			
Max Thermal Resistance		1°C/W			

PIN 2  
PIN 1

CENTER TAP COMMON CATHODE

CASE POSITIVE

CENTER TAP COMMON ANODE

CASE NEGATIVE

DOUBLER CONFIGURATION

CONNECTED TO CASE

TYPICAL RECOVERY TEST CIRCUIT

30 VDC CONSTANT VOLTAGE

500 µfd

30Ω NON-INDUCTIVE

1Ω NON-INDUCTIVE

TEST DEVICE

TO SCOPE

Hg RELAY

3Ω 25W ADJUST TO 1.4Ω

RECOVERY WAVEFORM

FORWARD CONDUCTION

REVERSE RECOVERY CURRENT

RECOVERED TO <10% CONDUCTION

NOTE: Standard device is common cathode. To order common anode, add "A" to part no. To order doubler, add "D" to part no.

NOTE: Constant Voltage Supply has output impedance (Zout) ¼Ω Max DC to 2KC and is adjusted for IF = IA

All JEDEC TO-3 dimensions and notes are applicable.

#### STANDARD RECTIFIER SERIES

Parameter		NSR8140S	NSR8141S	NSR8142S	NSR8143S
Peak Reverse Volts	VR	100V	200V	400V	600V
Peak Surge ½ Cycle	IS	300A			
Max Inst Forward Volts	VF	1.2V			
Max Reverse Current t = 100°C	IR	1.0mA			
Oper & Storage Temp Range		-65°C to +150°C			
Reverse Recovery Time Max	trr	N/A			

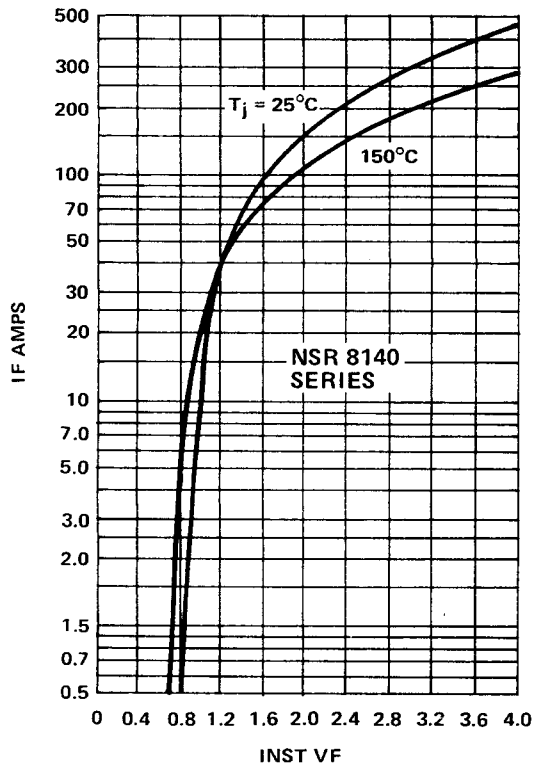
\*Surge Current up to 400A Available in Fast Rec. Center Tapped Devices

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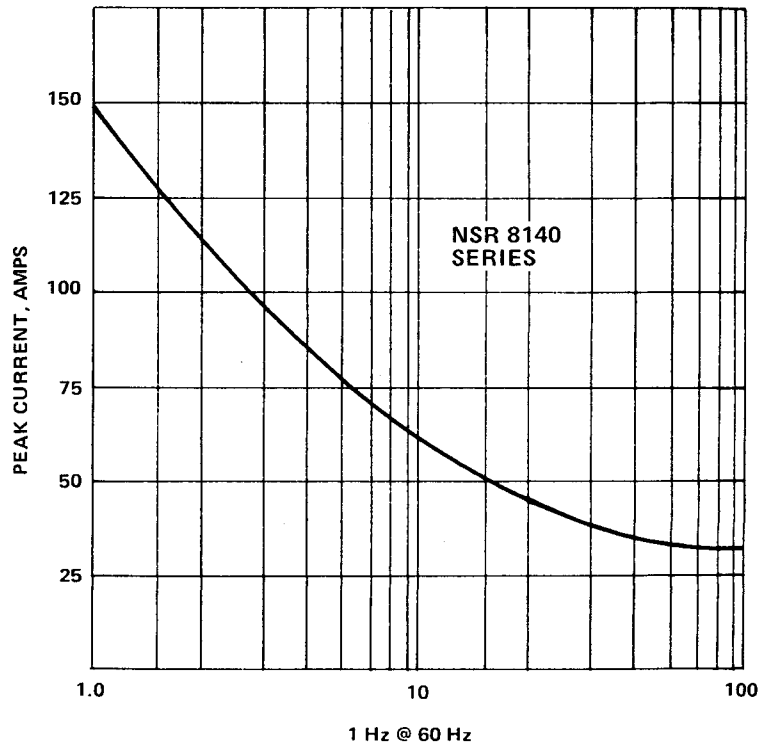
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## Semi-conductors

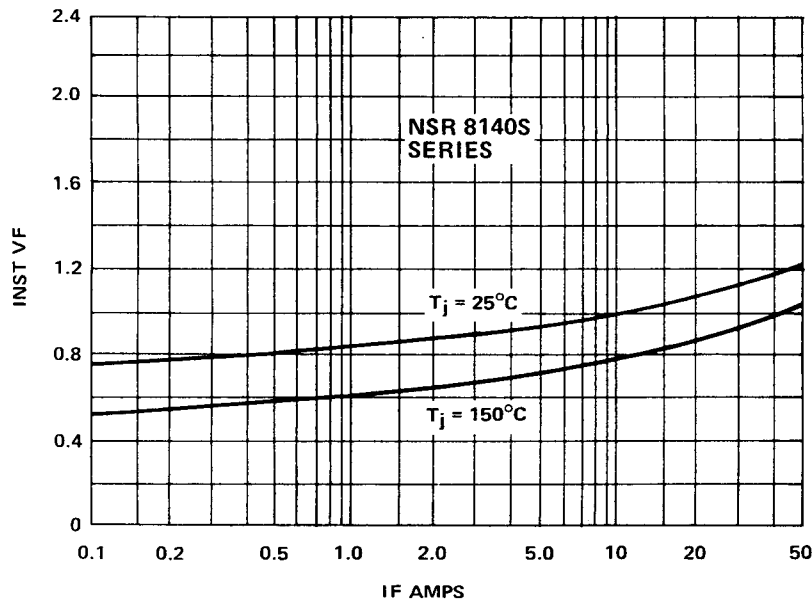
TYPICAL VF



MAX ALLOWABLE SURGE CURRENT



TYPICAL VF



MAX ALLOWABLE SURGE CURRENT

