Application

Features

\*

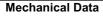
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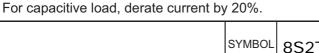
Case: ITO-220AC Full Plastic Isolated Package Outline \*

Plating Power Supply, SMPS, Motor Control and UPS

- \* Epoxy: UL 94V-0 rate flame retardant
- \* Terminals: Solderable per MIL-STD-202 method 208

Automotive Inverters and Solar Inverters

- Polarity: As marked on diode body \*
- Mounting position: Any \*
- Weight: 1.9 gram approximately \*



Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

	SYMBOL	8S2TH02FP	8S2TH04FP	8S2TH06FP	UNIT
Maximum Recurrent Peak Reverse Voltage	Vrrm	200	400	600	V
Maximum RMS Voltage	VRMS	140	280	420	V
Maximum DC Blocking Voltage	VDC	200	400	600	V
Maximum Average Forward Rectified Current Tc=100°C(Total Device)	IF(AV)	16.0		A	
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method)	IFSM	175	150		A
Maximum Instantaneous Forward Voltage @ 8.0 A (Per Diode)	VF	0.98	1.3	1.7	V
Maximum DC Reverse Current @TJ=25°C At Rated DC Blocking Voltage @TJ=125°C	lr	5.0 100			uA uA
Maximum Reverse Recovery Time (Note 1)	Trr	25-35			nS
Typical junction Capacitance (Note 2)	CJ	90			pF
Typical Thermal Resistance (Note 3)	Rejc	2.3			°C/W
Operating Junction and Storage Temperature Range	TJ, TSTG	-55 to + 150			°C

NOTES : (1) Reverse recovery test conditions IF = 0.5A, R= 1.0A, Irr = 0.25A.

(2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts DC.

(3) Thermal Resistance junction to case.

**Pb Free Plating Product** 

Low forward voltage drop

Low reverse leakage current

High surge current capability

High current capability

## ITO-220AC Unit : inch (m .419(10.66) .196(5.00) Latest FRED technology with super fast recovery time ,163(4.16) .167(3.73) .118(3.00) .079(2.00) 2269(6.85) .624(15.87) 548(13.93) 2 NIMO 5)MA) .038(0.96) .019(0.50) 0(12 7 .025(0.65)MAX 177(4.5

3

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Negative

Common Anode

Prefix"8A2"

3

.1(2.54)

1

3

Doubler

Tandem Polarity

Prefix"8D2"

0

Case

∩

0

Series

Tandem Polarity

Prefix"8S2"

6

Case

16.0 Ampere Full Plastic Insulated Dual Series Connection Ultra Fast Recovery Rectifiers

1

Case

.1(2.54)

∩→

Positive

Common Cathode

Prefix"8C2"

3

## 8S2TH02FP/8S2TH04FP/8S2TH06FP



Pb

RoHS



