

## Superfast Recovery Rectifiers

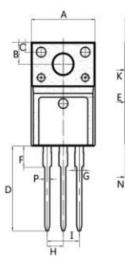
ITO-220AB

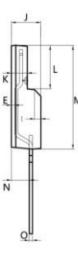
#### **FEATURES**

- ◆ Ultrafast 35 Nanosecond Recovery Time
- ◆ 150° C Operating Junction Temperature
- ◆ Popular ITO-220AB Package
- lacktriangle Epoxy Meets UL94 ,V0 @ 1/8"
- ◆ High Temperature Glass Passivated Junction
- ◆ Low Forward Voltage
- ◆ Low Leakage Current
- ◆ Reverse Voltage to 400 Volts
- ◆ Pb-Free Packages are Available

#### **MECHANICAL DATA**

- Case: Epoxy, Molded
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260° C Max. for 10 Seconds
- Shipped 50 units per plastic tube





Dim.	Min.	Max.		
Α	9.95	10.25		
В	2.95	3.25		
С	1.25	1.45		
D	12.95	13.25		
E	0.50	0.65		
F	3.1	3.3		
G	1.30	1.45		
Н	Typ 2.54			
1	Typ 5.08			
J	4.60	4.75		
K	2.50	2. 65		
L	6.35	6.55		
M	15.4	16.0		
N	2.75	3.05		
0	0.48	0.52		
Р	0.76	0.84		

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

Characteristics		Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage		$V_{RRM}$	400	V
Working Peak Reverse Voltage		$V_{RWM}$	400	V
Maximum DC Blocking Voltage		V <sub>DC</sub>	400	V
Maximum Average Forward Rectified Current	Per Leg		10	_
	Total	I <sub>O</sub>	20	А
Peak Forward Surge Current,8.3 ms Single Half Sine-wave		I <sub>FSM</sub>	160	А
Operating Temperature Range		T <sub>J</sub>	-50 to +150	°C
Storage Temperature Range		T <sub>STG</sub>	-50 to +150	°C
Typical Thermal Resistance (Note1)		R <sub>e JC</sub>	4	°C/W

Note1: Thermal resistance from Junction to case per leg mounted on heatsink.



# SFF2004(85) Superfast Recovery Rectifiers

### Electrical Characteristics (Per Leg) unless otherwise specified

Characteristics		Symbol	Value		Unit
Forward Voltage Drop(Note2)			Тур.	Max.	
at I <sub>F</sub> =3A	TA=25°C	V <sub>F</sub>	0.91	-	V
	TA=125°C		0.76	-	
at I <sub>F</sub> =5A	TA=25°C		0.97	-	
	TA=125°C		0.83	-	
at I <sub>F</sub> =10A	TA=25°C		1.08	1.3	
	TA=125°C		0.95	-	
Maximum Reverse Current at V <sub>R</sub> =400V	TA=25°C	I <sub>R</sub>	0.01	1	μΑ
	TA=125°C		5	-	μΑ
Maximum Reverse Recovery Time at I <sub>F</sub> =0.5A, I <sub>R</sub> =1A, I <sub>RR</sub> =0.25A		Trr	-	35	ns

Note2:Pulse test: 300 µs pulse width, 1 % duty cycle

#### RATING AND CHARACTERISTIC CURVES

