



HYPERFAST RECOVERY RECTIFIERS

REVERSE VOLTAGE 600 Volts FORWARD CURRENT 8 Amperes

FEATURES

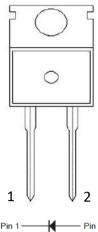
- · Low forward voltage drop
- · Excellent high temperature stability
- · Fast switching capability
- · Low reverse current
- · High Current Capability and Low Forward Voltage Drop

MECHANICAL DATA

· Case: TO-220AC

· Polarity: Cathode Band

TO-220AC



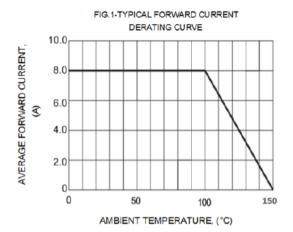
Dimensions in inches and (millimeters)

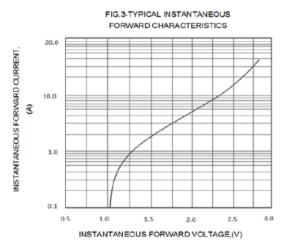
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS
Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

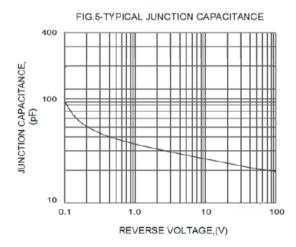
Characteristics	Symbol	UF08S06ST	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	600	V
Maximum RMS Reverse Voltage	V _{RMS}	420	V
Maximum DC blocking voltage	V _{DC}	600	V
Maximum Instantaneous Forward Voltage at 8A	V _F	2.3	V
Maximum DC Reverse Current @TA=25°C at Rated DC Blocking Voltage @TA=125°C	I _R	2 100	μА
Maximum Average Forward Rectified Current	I _F	8	А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	80	А
Maximum Reverse Recovery Time (I _F =0.5A,I _R =1A, Irr=0.25A)	Trr	25	nS
Typical Junction Capacitance	CJ	25	pF
Typical Thermal Resistance Junction to Case	R _{eJC}	3	°C/W
Junction and StorageTemperature Range	T _{J,} T _{STG}	-55 to +150	°C

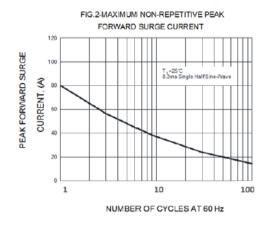


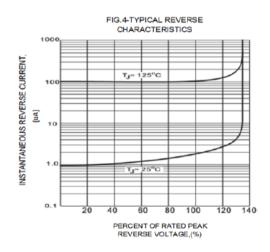
Rating and Characteristic Curves

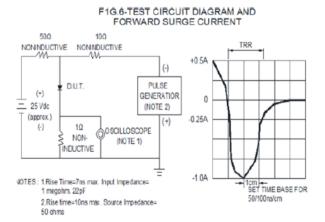








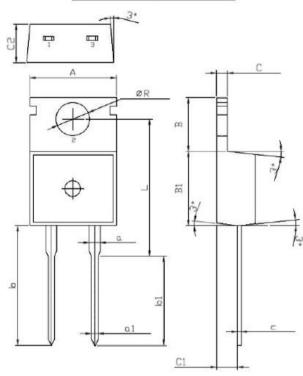






PACKAGE DIMENSION

TO-220AC (unit: mm)



Symbol	Dimensions In Millimeters		Cumbal	Dimensions In Millimeters	
	Min	Max	Symbol	Min	Max
Α	9.8	10.2	В	6.3	6.7
R	3.56	3.64	B1	9.0	9.4
L.	15.7	16.1	C1	2.2	2.6
b	12.6	13.6	С	1.2	1.4
b1	9.6	10.6	С	0.4	0.6
а	1.22	1.32	C2	4.3	4.7
a1.	0.7	0.9			