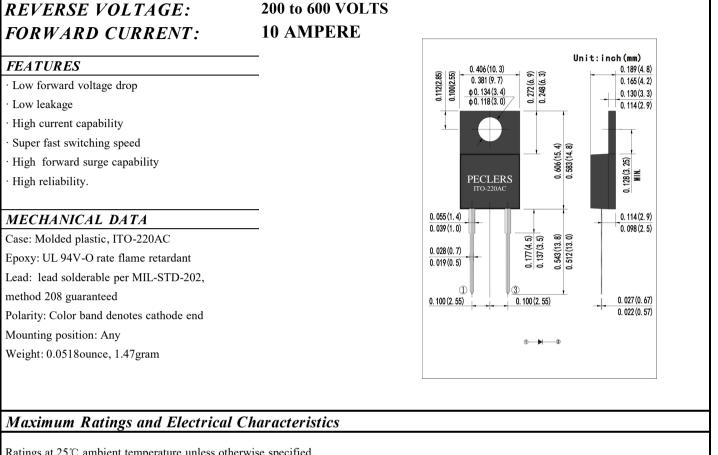
## PECLERS<sup>®</sup>

### SUPERFAST RECOVERY RECTIFIER



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

PARAMETER	Symbols	SF1004F	SF1006F	SF1008F	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	200	400	600	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	140	280	420	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	200	400	600	Volts
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at T <sub>A</sub> =100℃	I <sub>(AV)</sub>	10			Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave	I <sub>FSM</sub> 90				Amp
superimposed on rated load (JEDEC method)					
Rating for fusing (t<8.3ms)	I <sup>2</sup> t	33.615			A2 S
Maximum Forward Voltage at 10.0A DC and 25°C	V <sub>F</sub>	1.0	1.3	1.7	Volts
Maximum Reverse Current at T <sub>A</sub> =25°C at Rated DC Blocking Voltage T <sub>A</sub> =125°C	I <sub>R</sub>	10 500			— uAmp
Maximum Reverse Recovery Time (Note 1)	T <sub>RR</sub>	35			nS
Typical Junction Capacitance (Note 2)	CJ	200			pF
Typical Thermal Resistance	R <sub>0Jc</sub>	3			°C/W
Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150			ĉ

1- Reverse Recovery Test Conditions:  $I_F$ =.5A,  $I_R$ =1A,  $I_{RR}$ =.25A.

2- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.

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### SUPERFAST RECOVERY RECTIFIER

#### RATINGS AND CHARACTERISTIC CURVES

