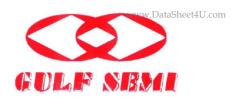
## FERP16K

# **Ultra fast Plastic Rectifiers**

VOLTAGE: 800V CURRENT:16.0A



#### **FEATURE**

- Plastic package has Underwriters Laboratories Flammability Classification 94V-0
- Ideally suited for use in very high frequency switching power supplies, inverters and as free wheeling diodes
- Ultra fast recovery time for high efficiency
- Excellent high temperature switching
- Glass passivated junction
- •High voltage and high reliability
- High speed switching
- Low forward voltage

### **MECHANICAL DATA**

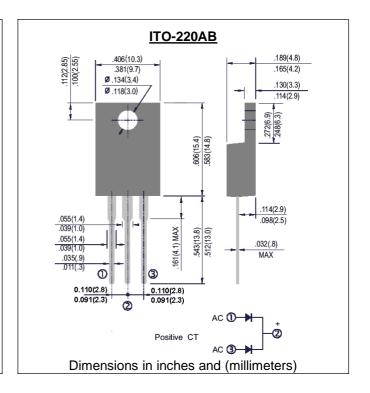
Case: JEDEC ITO-220AB molded plastic body over

passivated chip

Terminals: Plated Insert leads, solderable per

MIL-STD-750, Method 2026

Mounting Position: Any



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

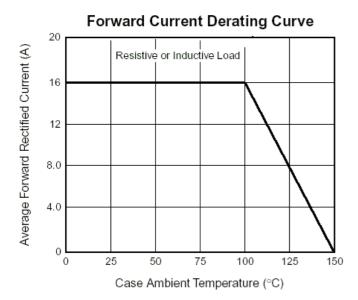
	SYMBOL	FERP16K	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	800	V
Maximum RMS Voltage	Vrms	640	V
Maximum DC blocking Voltage	Vdc	800	V
Maximum Average Forward Rectified at Tc =100°C	If(av)	16.0	А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	lfsm	125	А
Maximum Forward Voltage at Forward Current at 8.0A	Vf	1.85	V
Maximum Reverse Recovery Time (Note 1)	Trr	75	nS
Typical thermal resistance junction to case	R θ Jc	5.0	C/W
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =100°C	lr	10 100	μA μA
Storage and Operating Temperature Range	Tstg, Tj	-55 to +150	°C

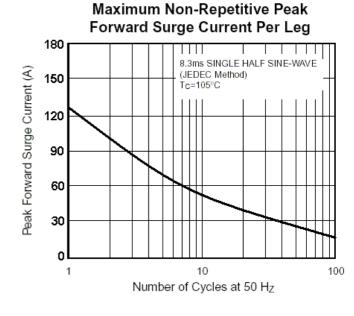
Note:

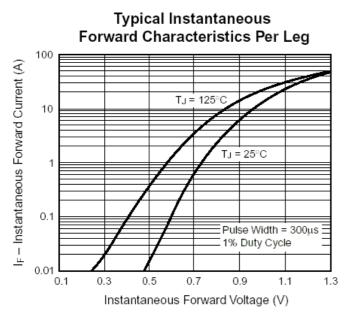
1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A

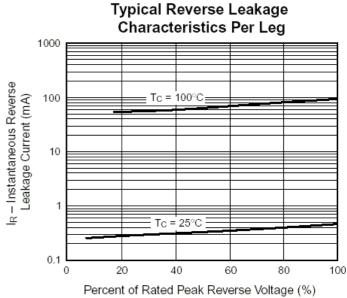
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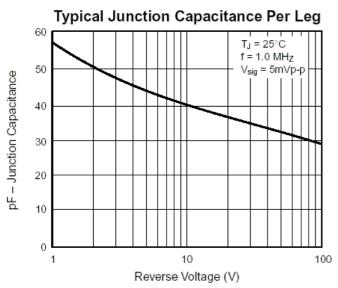
#### RATINGS AND CHARACTERISTIC CURVES FERP16K











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