# **UGSP15D**

# **Ultra fast Plastic Power Rectifiers**

VOLTAGE: 200V CURRENT:15.0A



### **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**

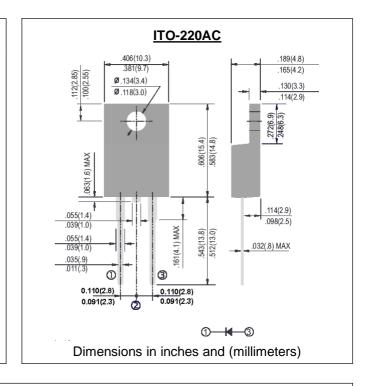
Case: JEDEC ITO-220AC molded plastic body over

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)

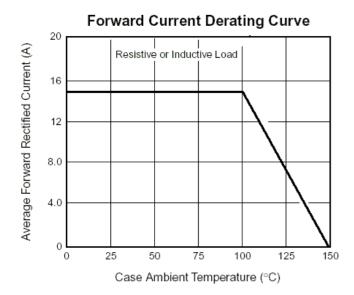
	SYMBOL	UGSP15D	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	200	V
Maximum RMS Voltage	Vrms	140	V
Maximum DC blocking Voltage	Vdc	200	V
Maximum Average Forward Rectified at Tc =100°C	If(av)	15.0	А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	150	А
Maximum Forward Voltage at rated Forward Current at 15A	Vf	1.2	V
Maximum Reverse Recovery Time (Note 1)	Trr	25	nS
Typical thermal resistance junction to case	R θ Jc	5.0	€\M
Maximum DC Reverse Current Ta =25°C	le.	10	μА
at rated DC blocking voltage Ta =125°C	lr	100	μA
Storage and Operating Temperature Range	Tstg, Tj	-55 to +150	°C

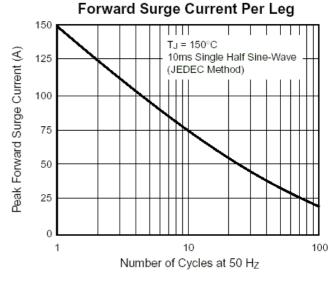
#### Note:

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

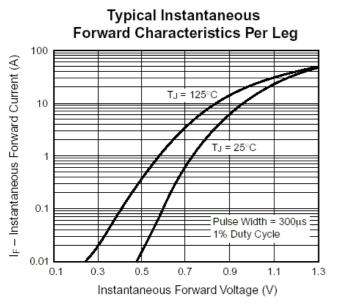
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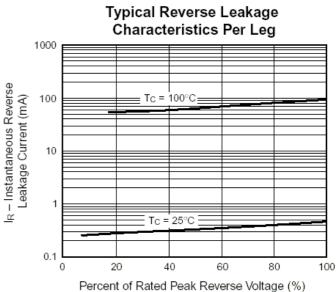
#### **RATINGS AND CHARACTERISTIC CURVES UGSP15D**

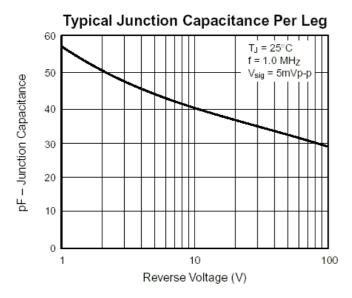




Maximum Non-Repetitive Peak







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