



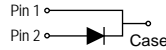
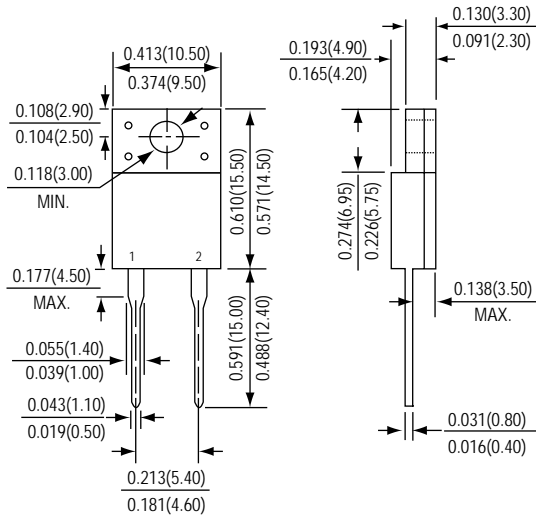
UGZ6DF THRU UGZ6JF ULTRAFAST EFFICIENT RECTIFIERS

Reverse Voltage - 200 to 600 Volts

Forward Current - 6 Amperes

PATENTED

ITO-220AC



*Dimensions in inches and (millimeters)

SUPEREX IITM



FEATURES

- * GPRC (Glass Passivated Rectifier Chip) inside
- * Glass passivated cavity-free junction
- * Compliance to RoHS product
- * Ultrafast recovery time for high efficiency
- * Low forward voltage, high current capability
- * Low leakage current
- * High surge current capability
- * Plastic Material-UL Recognition Flammability Classification 94V-0

MECHANICAL DATA

Case : JEDEC ITO-220AC molded plastic body

Terminals : Plated Leads, solderable per MIL-STD-750, Method 2026

Polarity : Molded on body

Mounting Position : Any

Weight : 2.24 grams(Approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.	SYMBOLS	UGZ6DF	UGZ6GF	UGZ6JF	UNITS
Maximum repetitive peak reverse voltage	VRRM	200	400	600	Volts
Working peak reverse voltage	VRWM	200	400	600	
Maximum RMS voltage	VRMS	140	280	420	
Maximum DC blocking voltage	VDC	200	400	600	
Maximum average forward rectified current See Fig. 1	I (AV)		6		Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM		90		Amps
Maximum instantaneous forward voltage IF = 6 A, TA=25	VF	1.10	1.30	1.70	Volts
Maximum DC reverse current at rated DC blocking voltage @TA=25	IR		5		uA
Maximum reverse recovery time (NOTE 3)	trr		35		nS
Typical junction capacitance (Note 1)	CJ		60		pF
Typical thermal resistance (Note 2)	R JC		3.8		/ W
Operating temperature range	TJ		-50 to +150		
Storage temperature range	TSTG		-65 to +175		

Note : 1. Measured at 1.0MHz and applied reverse voltage of 4.0V.
2. Thermal resistance junction to case.
3. Reverse recovery test condition : IF 0.5A, IR=1.0A, Irr=0.25A

RATINGS AND CHARACTERISTIC CURVES UGZ6DF THUR UGZ6JF

FIG.1 - FORWARD CURRENT DERATING CURVE

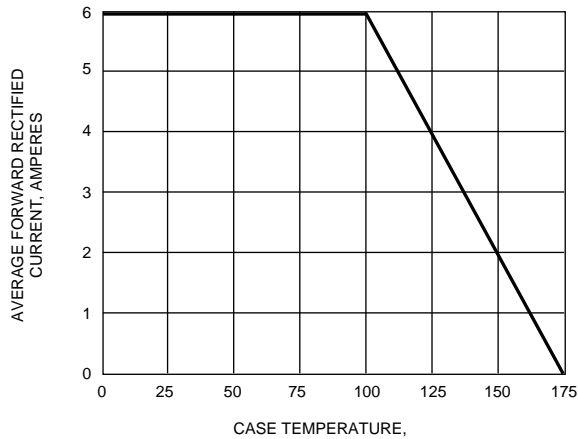


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

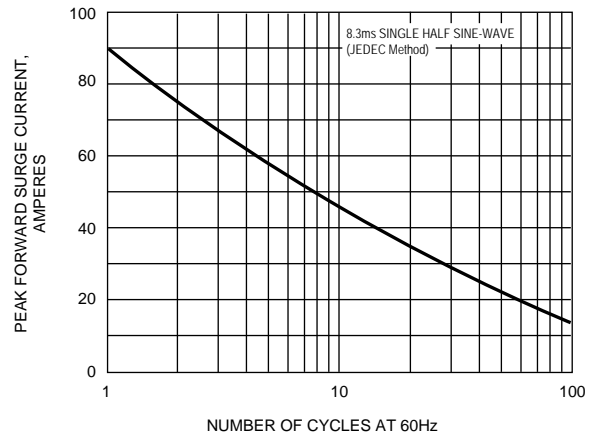


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

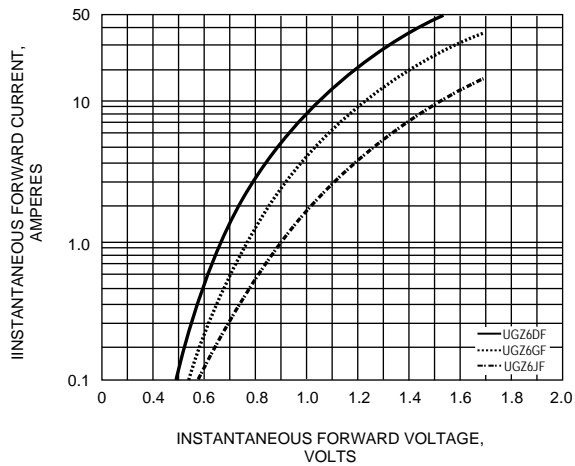


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

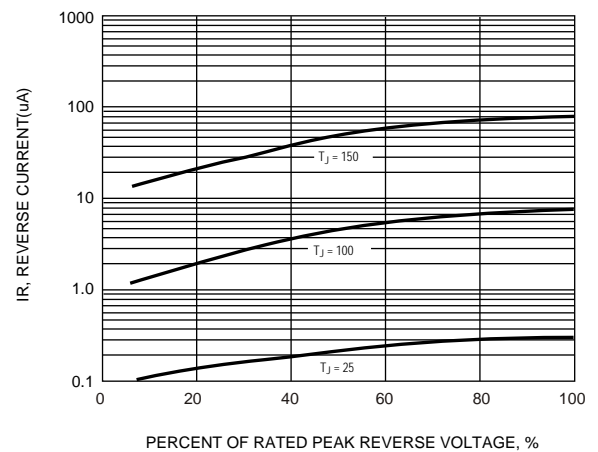


FIG.5 - TYPICAL JUNCTION CAPACITANCE

