

5JLZ47A

SWITCHING MODE POWER SUPPLY APPLICATION

CONVERTER & CHOPPER APPLICATION

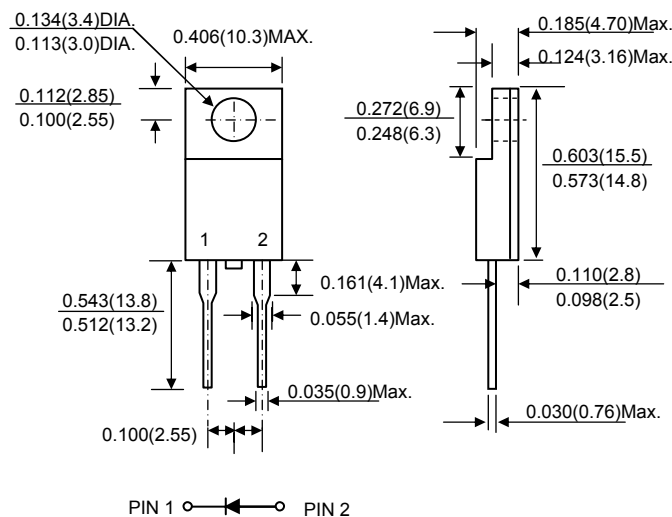
- * Repetitive Peak Reverse Voltage : $V_{RRM} = 600V$
- * Peak Forward Voltage : $V_{FM} = 4.0V$
- * Ultra Fast Reverse-Recovery Time : $T_{rr} = 35ns$

MECHANICAL DATA :

- * Case : Epoxy, Molded
- * Lead Temperature for Soldering Purposes:
260°C Max. for 10 Seconds
- * Polarity: As marked
- * Mounting Position: Any
- * Weight : 2.24 grams (Approximately)

Ultra Fast Rectifiers

ITO-220AC



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ C$ unless otherwise specified.)

RATING	SYMBOL	VALUE	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	600	V
Average Forward Current	$I_{F(AV)}$	5.0	A
Maximum Peak Forward Surge Current (Non-Repetitive)	I_{FSM}	40	A
Maximum Instantaneous Forward Voltage at $I_{FM} = 5 A$	V_{FM}	4	V
Maximum Repetitive Peak Reverse Current $V_{RRM} = 600 V$	I_{RRM}	50	μA
Maximum Reverse Recovery Time ($I_F = 2A, di/dt = -20A / \mu A$)	T_{rr}	35	ns
Maximum Thermal Resistance, Junction to Case	$R_{\theta JC}$	4.5	$^\circ C/W$
Junction Temperature	T_J	- 40 to + 150	$^\circ C$
Storage Temperature Range	T_{STG}	- 40 to + 150	$^\circ C$

RATING AND CHARACTERISTIC CURVES (5JLZ47A)

FIG.1 - FORWARD CURRENT DERATING CURRENT

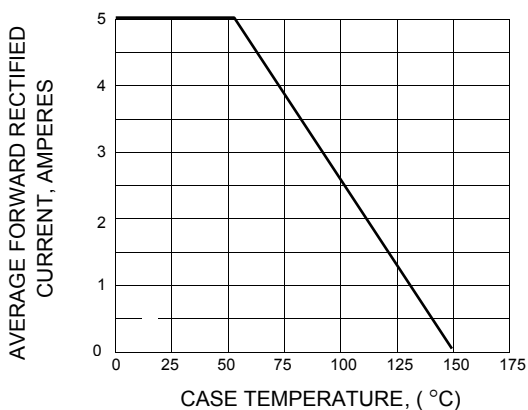


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

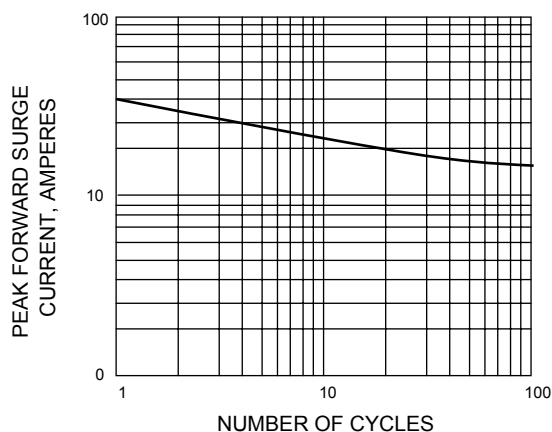


FIG.3 - TYPICAL FORWARD VOLTAGE

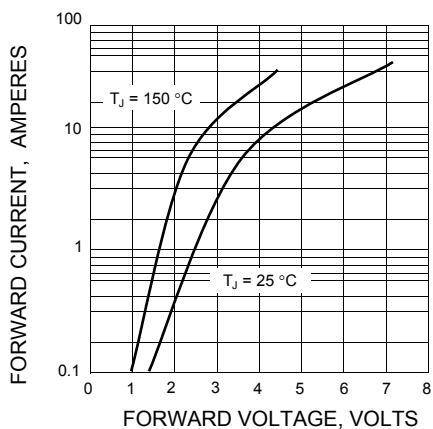


FIG. 4 - JUNCTION CAPACITANCE

