Certificate Number: Q10561

Certificate Number: E17276

5JLZ47A

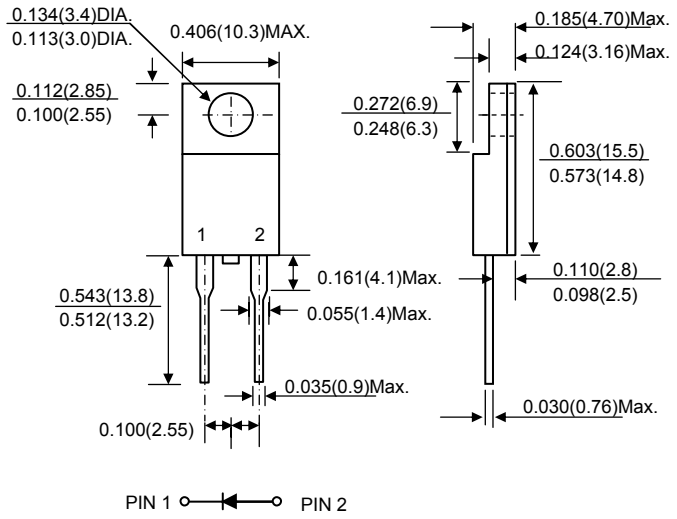
Ultra Fast Rectifiers

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 : Trr = 35ns

ITO-220AC



Dimensions in inches and (millimeters)

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)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (Ta =25°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 / µA)	Trr	35	ns
Maximum Thermal Resistance, Junction to Case	$R_{\theta JC}$	4.5	°C/W
Junction Temperature	T_J	- 40 to + 150	°C
Storage Temperature Range	T_{STG}	- 40 to + 150	°C

RATING AND CHARACTERISTIC CURVES (5JLZ47A)

FIG.1 - FORWARD CURRENT DERATING CURRENT

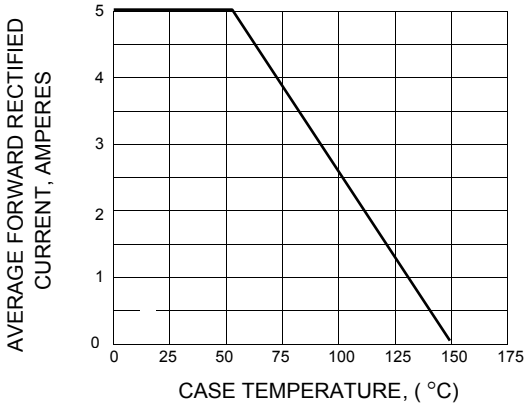


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

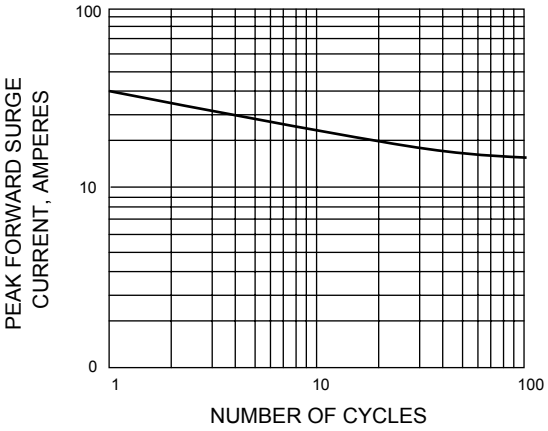


FIG.3 - TYPICAL FORWARD VOLTAGE

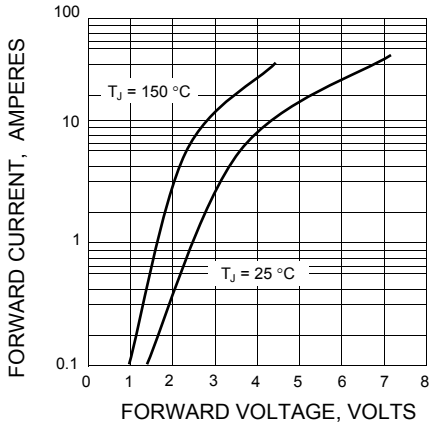


FIG. 4 - JUNCTION CAPACITANCE