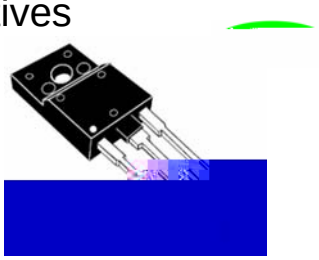
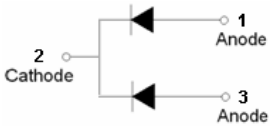
JPUR6006YCT u nderw riters laboratory f lammability classi f ication 9 4 V-0

- Lead free in comply with EU RoHS 2011/65/EU directives
- Low reverse leakage current
- Ultrafast recovery time
- Epitaxial planar technology
- 5th Generation soft fast recovery characteristics
- Low recovery loss



TO-3PF



Symbol

MECHANICAL DATA

Case: TO-3PF molded plastic over passivated junction

Terminals: Solder plated, solderable per J-STD-002

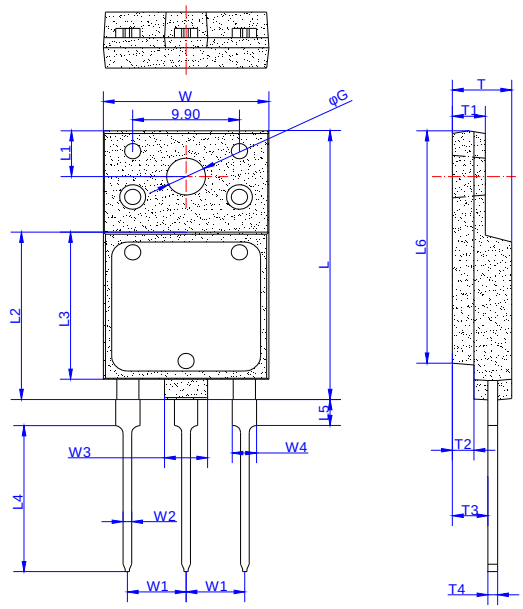
ABSOLUTE MAXIMUM RATING (Rating at 25 ambient temperature unless otherwise specified.)

Parameter	Symbol	JPUR6006YCT	Unit
Maximum repetitive peak reverse voltage (Pin1~2 or Pin3~2)	V_{RRM}	600	V
Maximum DC blocking voltage(Pin1~2 or Pin3~2)	V_{DC}	600	V
Average forward current at T_C=75 (Pin1,3~2)	$I_{F(AV)}$	60	A
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load(Pin1~2 or Pin3~2)	I_{FSM}	330	A
Peak forward surge current: 10ms single half sine-wave superimposed on rated load(Pin1~2 or Pin3~2)		300	
Junction temperature and storage temperature range	T_j,T_{stg}	-55 to +175	

ISOLATION CHARACTERISTICSM 2 e ' Me% mmtmp * %

					Max.	Unit
$V_{isol(RMS)}$	RMS isolation voltage	50Hz≤f≤60Hz,RH≤65%,from all pins to external heatsink, sinusoidal waveform, clean and dust free	-	-	2500	V
C_{isol}	Isolation capacitance	from cathode to external heatsink	-	10	-	pF

PACKAGE MECHANICAL DATA



TO-3PF

Ref.	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
W	15.25	15.70	0.600	0.618
W1	5.15	5.75	0.203	0.226
W2	0.65	0.95	0.026	0.037
W3	3.80	4.20	0.150	0.165
W4	1.70	2.30	0.067	0.091
L	26.30	26.70	1.035	1.051
L1	4.40	4.60	0.173	0.181
L2	16.30	16.70	0.642	0.657
L3	14.10	14.90	0.555	0.587
L4	14.15	15.00	0.557	0.591
L5	2.30	2.70	0.091	0.106
L6	21.50	24.50	0.846	0.965
T	5.30	5.70	0.209	0.224
T1	2.80	3.20	0.110	0.126
T2	1.80	2.20	0.071	0.087
T3	3.10	3.50	0.122	0.138
T4	0.80	1.10	0.031	0.043
φG	3.30	3.90	0.130	0.154

PACKAGE INFORMATION-TO-3PF

OUTLINE	TUBE (PCS)	PER CARTON (PCS)
TUBE	30	2,400

CHARACTERITICS CURVE

FIG.1 Typical forward characteristics (Pin1~2 or Pin3~2)

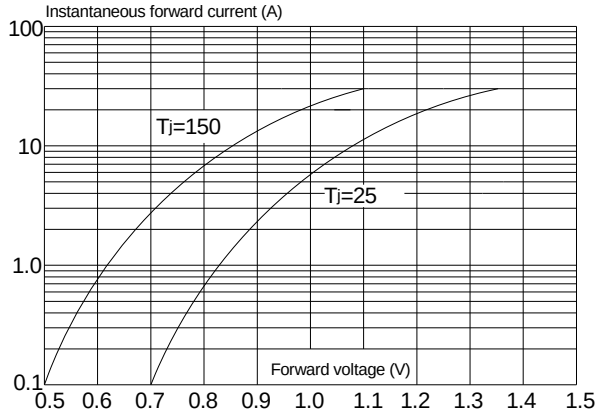


FIG.2 Typical reverse characteristics (Pin1~2 or Pin3~2)

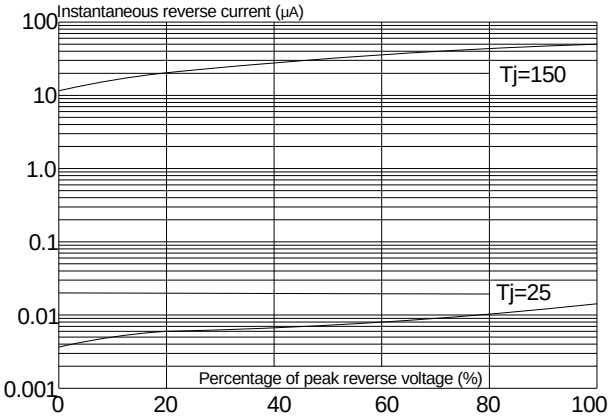


FIG.3 Maximum non-repetitive peak forward surge current(8.3ms single half sine-wave, Pin1~2 or Pin3~2)

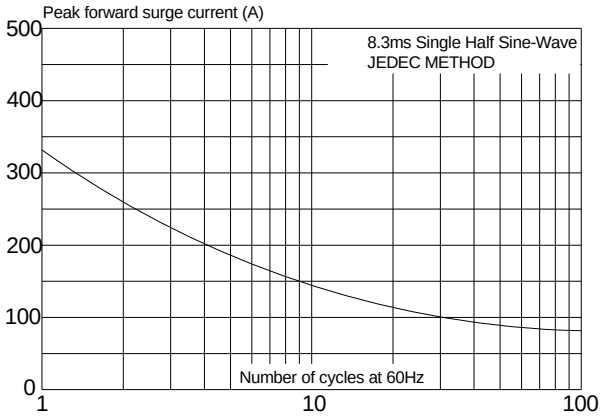


FIG.4: Maximum non-repetitive peak forward surge current(10ms single half sine-wave, Pin1~2 or Pin3~2)

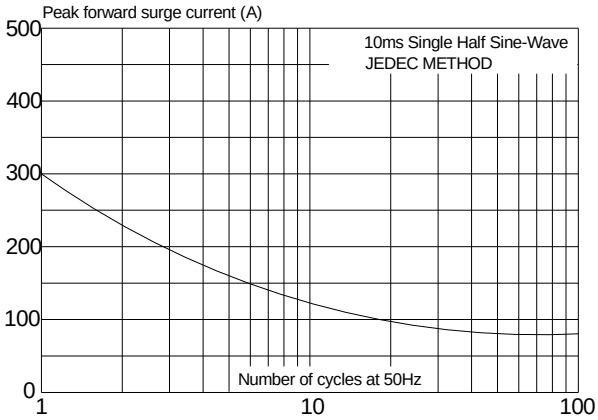


FIG.5: Forward current derating curve (Pin1,3~2)

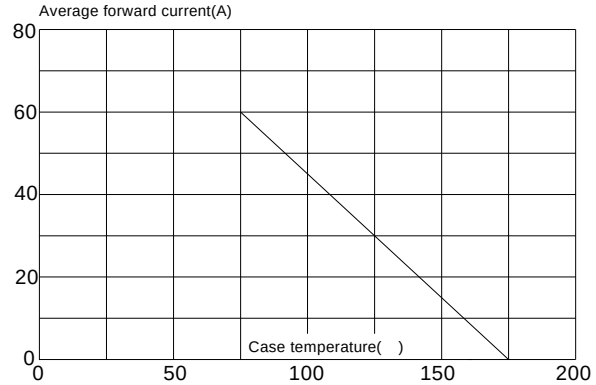
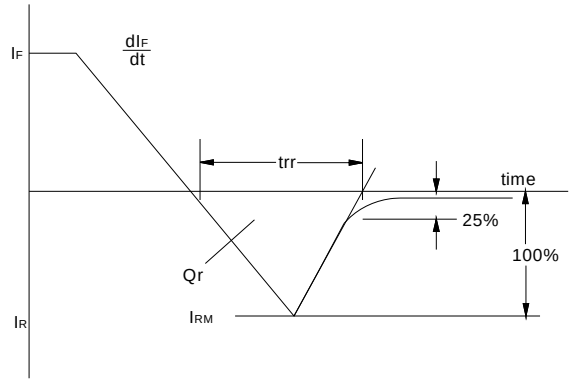


FIG.6: Reverse recovery definitions



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