



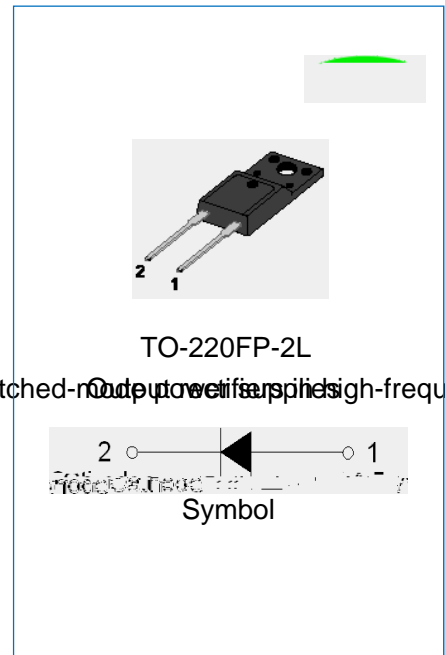
JPCR2006FPL

EPI PLANAR HYPERFAST SOFT RECOVERY RECTIFIER

Rev.1.1

DESCRIPTION

- Plastic package has underwriters laboratory flammability classification 94V-0
- Lead free in comply with EU RoHS 2011/65/EU directives
- Low reverse leakage current
- Hyperfast recovery time
- Low recovery loss
- Epitaxial planar technology
- 5th Generation soft fast recovery character \hat{A}



frequency switched-output power supplies high-frequency

MECHANICAL DATA

- Case: TO-220FP-2L molded plastic over passivated junction
- Terminals: Solder plated, solderable per J-STD-002
- Weight: 2 gram

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

Parameter	Symbol	JPCR2006FPL	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	600	V
Maximum DC blocking voltage	V_{DC}	600	V
Average forward current at $T_C=70^\circ\text{C}$	$I_{F(AV)}$	20	A
Peak forward surge current: 10ms single half sine-wave superimposed on rated load	I_{FSM}	180	A
Junction temperature and storage temperature range	T_J, T_{stg}	-55 to +175	

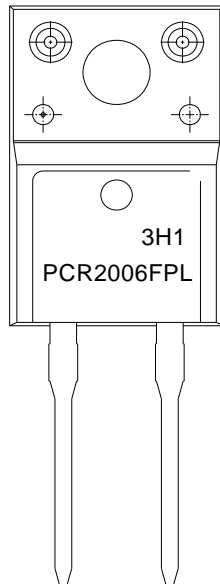
ISOLATION CHARACTERISTICS

						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





MARKING





PACKAGE MECHANICAL DATA



1

CHARACTERISTICS CURVE

FIG.1: Typical forward characteristics

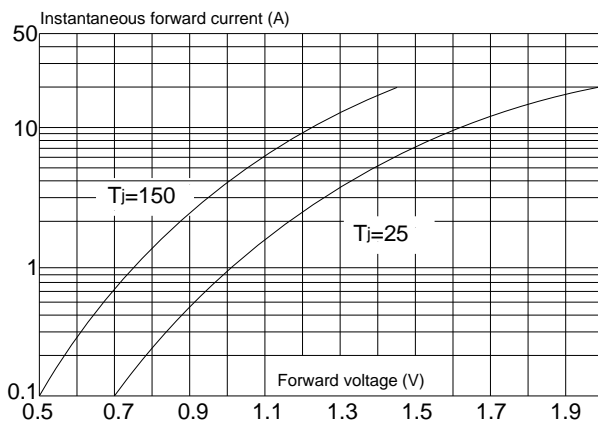


FIG.2: Typical reverse characteristics

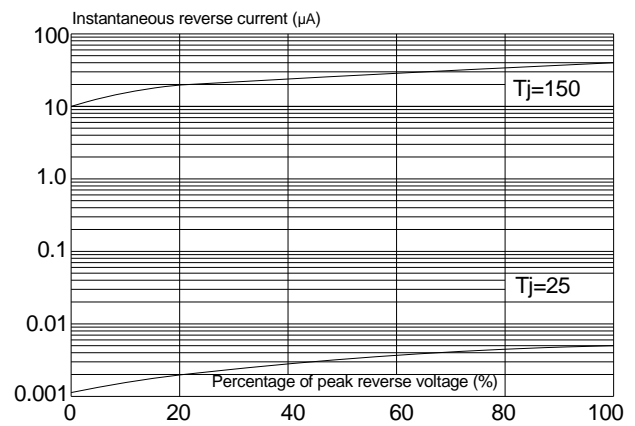


FIG.3: Maximum non-repetitive peak forward surge current(10ms single half sine-wave)

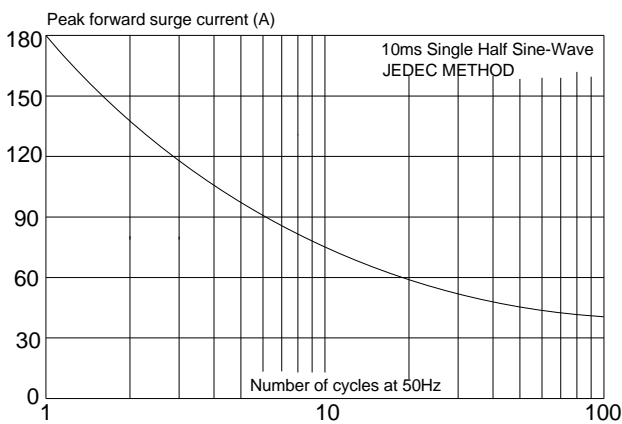


FIG.4: Forward current derating curve

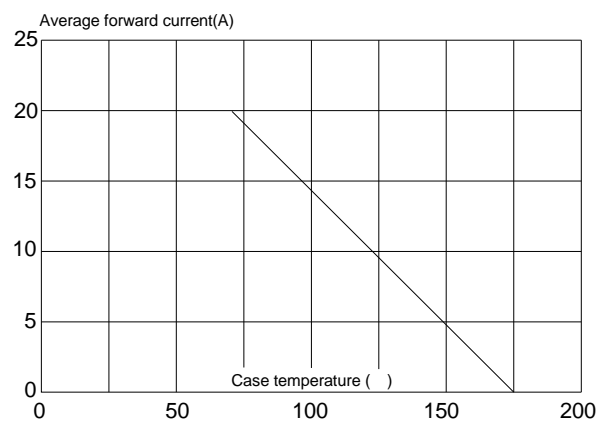
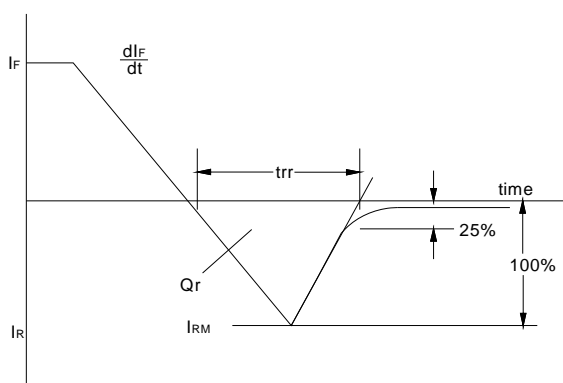


FIG.5: Reverse recovery definitions





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