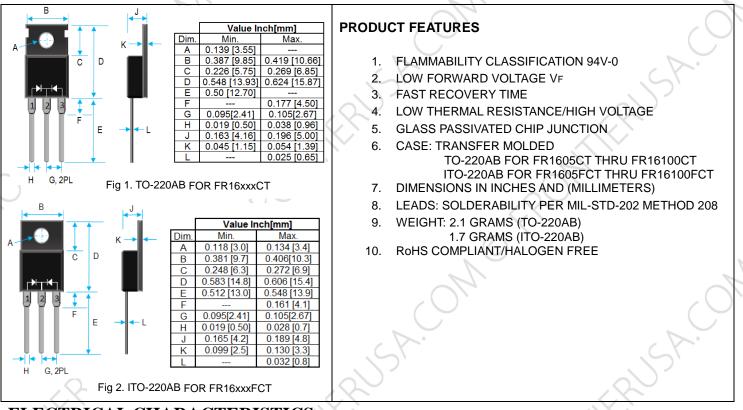


FR1605(F)CT THRU FR16100(F)CT SPECIFICATION Rev. A

16A FAST RECOVERY RECTIFIERS



ELECTRICAL CHARACTERISTICS

MAXIMUM RATINGS (TA =25°C UNLESS OTHERWISE NOTED) AND ELECTRICAL CHARACTERISTICS

RATING	SYMBOL		UNITS
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT, SEE FIG.1	lo	16 (PER DEVICE)	A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	IFSM	150	А
TYPICAL JUNCTION CAPACITANCE @1MHz & REVERSE VOLTAGE 4V	CJ	65	pF
TYPICAL THERMAL RESISTANCE, JUNCTION TO CASE ON HEAT SINK	R0jc 🔪	2.2 (PER LEG)	°C/W
STORAGE TEMPERATURE RANGE	T _{STG}	- 55 TO +175	°C
OPERATING TEMPERATURE RANGE	TOP	- 55 TO +150	°C
MAXIMUM FORWARD VOLTAGE AT 8A PER LEG	VF	1.3	V
MAXIMUM REVERSE CURRENT AT 25°C	IR	10	μA
MAXIMUM REVERSE CURRENT AT 125°C	l _R	500	μA

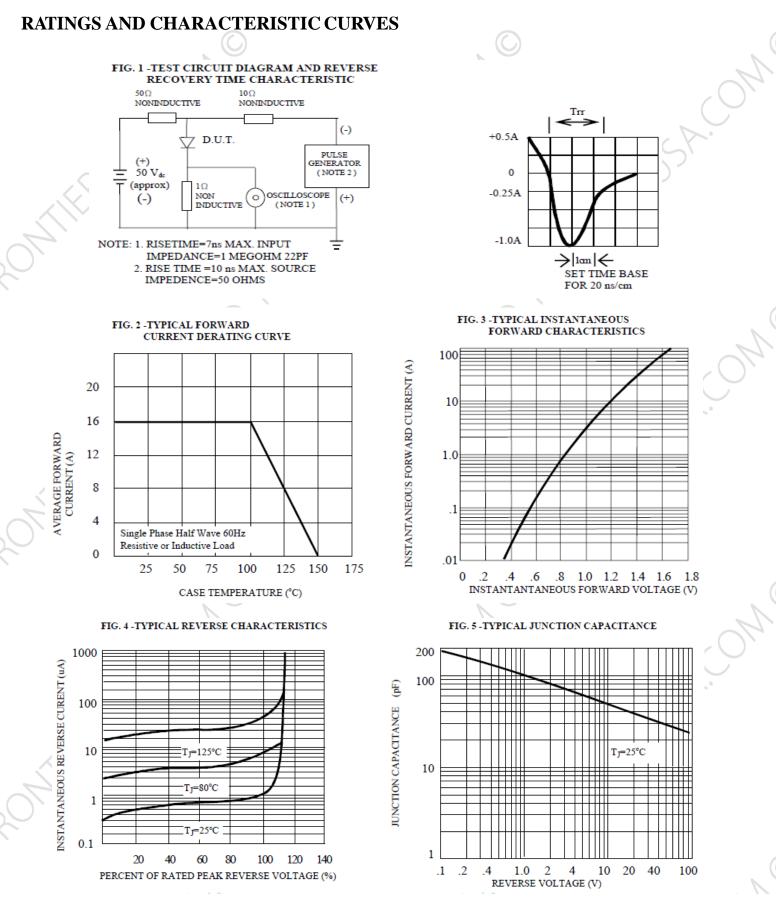
PART NUMBER	MAX RECURRENT PK REVERSE VOLTAGE/DC BLOCKING V _{RRM} /V _R (V)	MAX V _{RMS} (V)	MAX REVERSE RECOVERY TIME TRR (nS)	MARKING		
FR1605CT/FR1605FCT	50	35	150	SAME AS P/N		
FR1610CT/FR1610FCT	100	70	150	SAME AS P/N		
FR1620CT/FR1620FCT	200	140	150	SAME AS P/N		
FR1640CT/FR1640FCT	400	280	150	SAME AS P/N		
FR1660CT/FR1660FCT	600	420	250	SAME AS P/N		
FR1680CT/FR1680FCT	800	560	500	SAME AS P/N		
FR16100CT/FR16100FC	1000	700	500	SAME AS P/N		

NOTE: 1. REVERSE RECOVERY TEST CONDITIONS: IF=0.5A, IR=1.0A, IRR=0.25A.

2. CURRENT RATING IS BASED ON SINGLE PHASE, 1/2 WAVE, 60HZ, RESISTIVE, OR INDUCTIVE LOAD. FOR CAPACITIVE LOAD, DERATE CURRENT BY 20%



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