

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS PARAMETER SYMBOL VALUE UNIT Maximum repetitive peak reverse voltage VRRM 100 ٧ Maximum DC blocking voltage V_{DC} 100 ٧ Maximum Average rectified output current @Tc=100°C 20 А (AV) Peak forward surge current 8.3ms single half sine-wave 150 А IFSM Superimposed on rated load. Operating junction and Storage Temperature range -55 ~ +150 TJ. TSTG °C STATIC ELECTRICAL CHARACTERISTICS PARAMETER **TEST CONDITIONS** SYMBOL ТҮР MAX UNIT TJ=25°C 0.80 ---Forward voltage (Note1) I_{F=10A} VF v TJ=125°C 0.75 TJ=25°C 100 uA Leakage current V_R=100V I_R TJ=125°C 4.7 15 mΑ Typical junction capacitance (Note 2) CJ 315 pF THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	IYP		UNIT
Typical thermal resistance (Note 3,4)	RthJ _c	3		°C/W
	RthJ∟	2		
Note :			REV0 , Nov -2017, KTHC163	

Note :

300us pulse width, 2% duty cycle. (1)

Measured at 1.0MHz and applied voltage of 4.0V DC. (2)

Thermal resistance test performed in accordance with JESD-51. (3)

(4)The unit mounted on fin type heatsink (100mm x 75mm x26.6mm) and Aluminum plate heatsink

(100mm x 100mm x 5.02mm).

RATING AND CHARACTERISTIC CURVES G20C100CTFW

LITEON

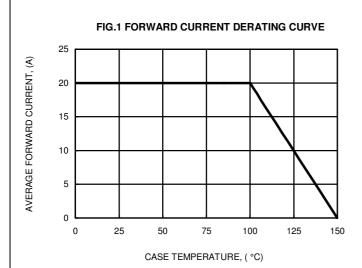
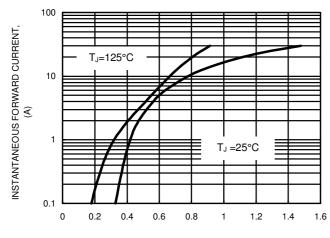


FIG.3 TYPICAL FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, (V)

FIG.5 TYPICAL REVERSE CHARACTERISTICS 100000 INSTANTANEOUS REVERSE CURRENT, (uA) T_J =125°C 10000 1000 100 T, =100°C 10 T_J =25°C 1 0.1 0 20 40 60 80 100 120 RATED PEAK REVERSE VOLTAGE, (V)

FIG.2 MAXIMUM NON-REPETITIVE SURGE CURRENT

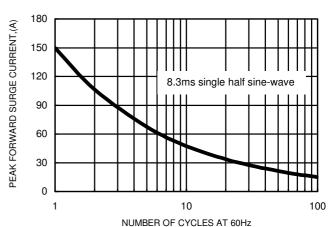
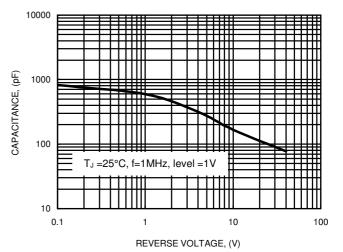


FIG.4 TYPICAL JUNCTION CAPACITANCE



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