

ABSOLUTE RATINGS						
PARA	AMETER		SYMBOL	VALU	JE	UNIT
Maximum repetitive peak reverse	num repetitive peak reverse voltage		V _{RRM}	100		V
Maximum DC blocking voltage			V _{DC}	100		V
Maximum Average rectified output	ut current	@Tc=25°C	I(AV)	40		А
Peak forward surge current 8.3m superimposed on rated load.	s single half sine-w	ave	IFSM	250		А
Operating junction and Storage Temperature range			TJ, TSTG	-55 ~ +150		°C
STATIC ELECTRICAL CH	HARACTERIST	ICS				·
PARAMETER	TEST C	TEST CONDITIONS		ТҮР	MAX	UNIT
Forward voltage (Note1)	I _F =20A	TJ=25°C TJ=125°C	VF	 0.71	0.84 0.73	V
Leakage current	V _R =100V	TJ=25°C TJ=125°C	I _R	 6.41	30 12	uA mA
Typical junction capacitance (No	junction capacitance (Note 2)			550		pF
THERMAL CHARACTER	ISTICS		- I			

PARAMETER	SYMBOL	ТҮР	UNIT
Typical thermal resistance (Note 3,4)	RthJc	4.2	°C/W
Typical thermal resistance (Note 3,4)	RthJ∟	3.2	2/11
Note :		REV-0 , May-2018, KTHC189	

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

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 (75mm x 100mm x 26.8mm) with copper heatsink (19.9mm x 12.1 mm x 12.6mm) in free air condition

RATING AND CHARACTERISTIC CURVES G40C100CTFW

LITEON

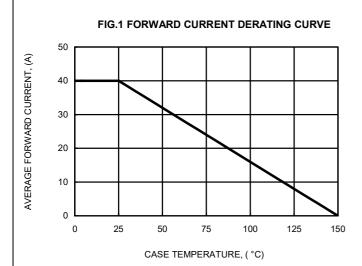
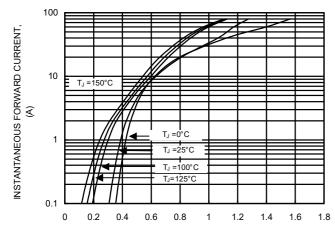


FIG.3 TYPICAL FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, (V)

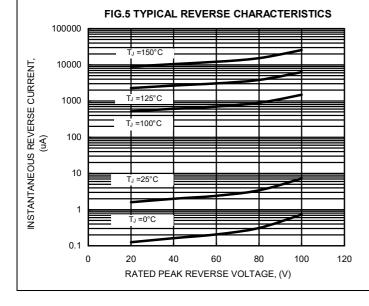


FIG.2 MAXIMUM NON-REPETITIVE SURGE CURRENT

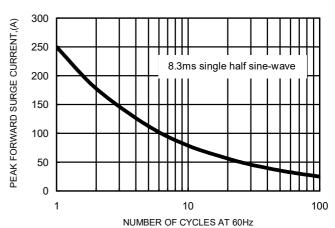
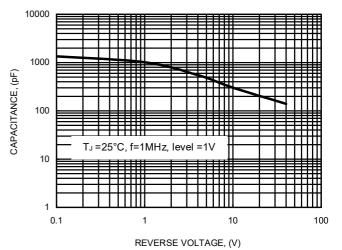


FIG.4 TYPICAL JUNCTION CAPACITANCE



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