

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwis e specified.

ABSOLUTE RATINGS

PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		V _{RRM}	100	V
Maximum DC blocking voltage		V _{DC}	100	V
Maximum Average rectified forward current	@Tc = 90°C	I _(AV)	40	А
Peak forward surge 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	250	А
Operating and Storage temperature range		$T_{J,}T_{STG}$	-55 ~ +150	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITION		SYMBOL	ТҮР	МАХ	UNIT
Forward voltage (Note 1)	I _F = 10A	T」= 25℃ T」= 125℃	V _F	0.55 0.50		V
	I _F = 20A	T」= 25℃ T」= 125℃			0.73 0.67	V
Reverse leakage current	V _R = 100V	T」= 25℃ T」= 125℃	I _R		400 35	uA mA

THERMAL CHARACTERISTICS

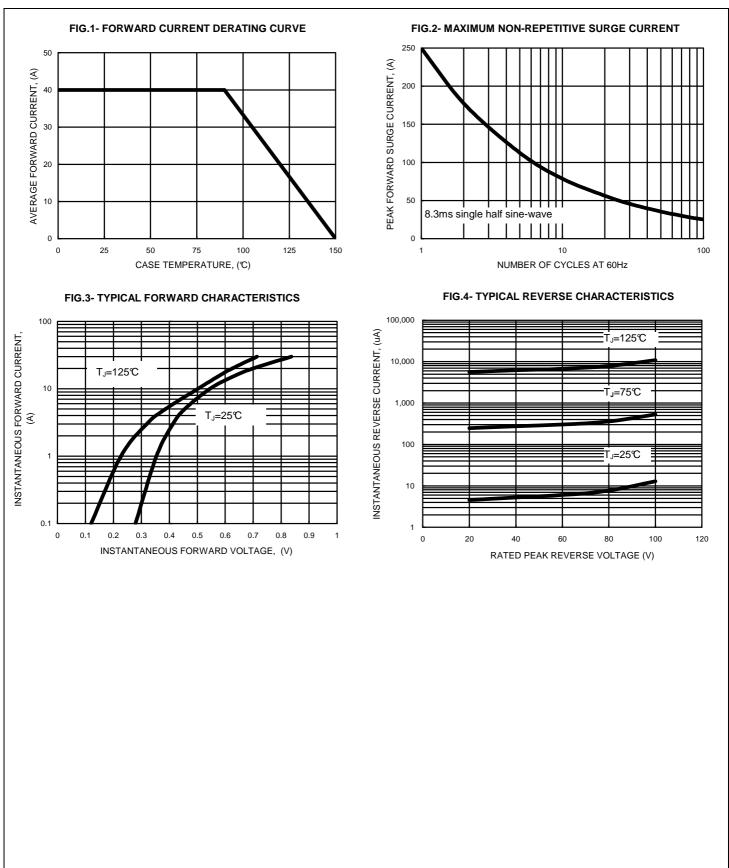
PARAMETER	SYMBOL	ТҮР		UNIT
Typical thermal resistance (Note 2)	RthJ _c	2		°C/W
Note :			REV. 0, Aug2015, KSHB31	

(1) 300us Pulse Width, 2% Duty Cycle.

(2) Thermal Resistance test performed in accordance with JESD-51.

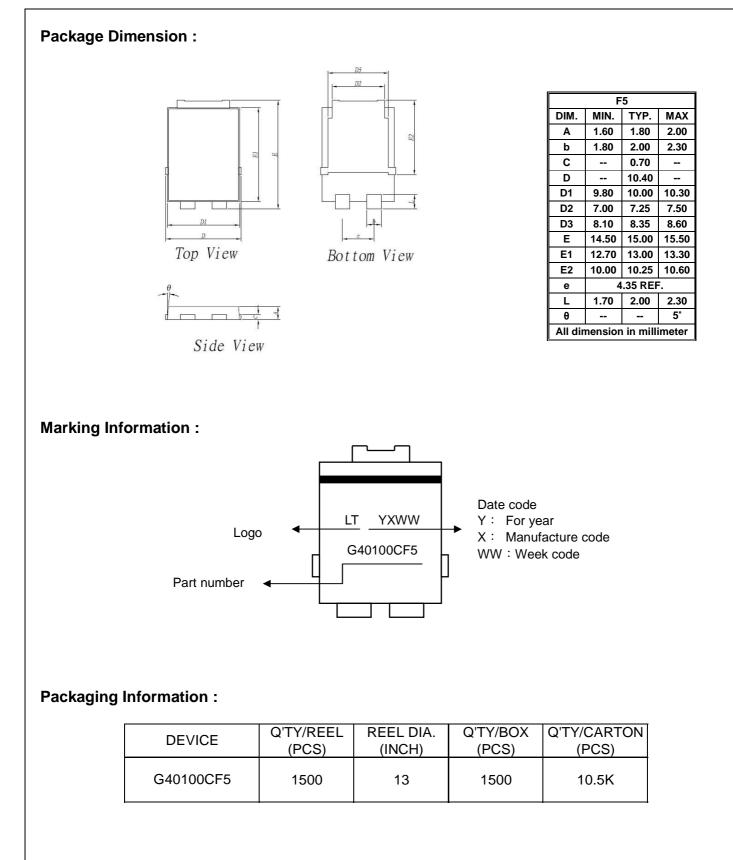
RATING AND CHARACTERISTIC CURVES G40100CF5

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