

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		V _{RRM}	600	V
Maximum DC blocking voltage		V _{DC}	600	V
Average rectified output current per device	@ T _A = 25°C (Note1)	I _{F(AV)}	25	А
Peak forward surge current 10ms single half sine-wave superimposed on rated load	@ T _A =25°C @ T _A =125°C (Note1)	I _{FSM}	400 320	А
I ² t rating for fusing (t = 10ms)		l ² t	800	A ² S
Storage temperature range		T _J ,T _{STG}	-55 to +150	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITION		SYMBOL	TYP.	МАХ	UNIT
Forward voltage (Note1)	I _F = 25A	$T_A = 25^{\circ}C$ (Note1)	VF	1.04	1.1	V
Leakage current	V _R = 600V	$T_A = 25^{\circ}C$ (Note1)	I _R	0.2	10	uA
Typical junction capacitance (Note2)		CJ	150		pF	

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	TYP.	UNIT
Typical thermal resistance (Note3)	RthJ _c RthJ _L RthJ _A	2.5 2 5.5	°C/W
Note -			, SEP-2015, KSDB08

Note :

(1) Perform static test after the temperature of oven is steady 20 minutes.

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

(3) Thermal resistance junction to case, lead and ambient mounted on PCB.

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RATING AND CHARACTERISTIC CURVES SR2506F5

LITEON



MECHANICAL AND MARKING INFORMATION SR2506F5





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