

LSC04065FW

SILICON CARBIDE SCHOTTKY DIODE

REVERSE VOLTAGE - 650 Volts FORWARD CURRENT - 4 Amperes

FEATURES

- Positive temperature coefficient for save operation and easy of paralleling
- 175°C maximum operating junction temperature
- · Essentially no reverse or forward recovery
- Extremely fast switching not dependent on temperature
- Qualification is according to AEC-Q101 Rev D

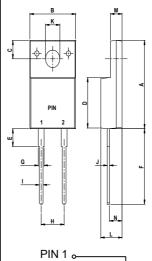
APPLICATION

- Switch mode Power Supplies
- Power Factor correction
- Power Factor correction modules

MECHANICAL DATA

- Case: JEDEC TO-220ACFP
- · Case Material: "Green" molding compound, UL flammability classification 94V-0, "Halogen-free".
- · Lead free finish, RoHS compliant Weight: 1.497 grams (Approximate) Marking code: LSC04065FW

ITO-220AC(WB)



ITO-220AC(WB)					
DIM	MIN	MAX			
Α	15.33	15.62			
В	10.00	10.40			
С	2.91	3.21			
D	8.50	8.80			
E	3.30	3.90			
F	13.00	13.70			
G	1.15	1.70			
Н	4.95	5.25			
ı	0.50	0.80			
J	0.45	0.70			
K	K 3.00 Ø				
L	4.46	4.87			
М	2.48	2.80			
N	2.50	2.80			
All dimension in millimeter					

REV.-4 ,Aug -2019, KTGA40

PIN 2 ...

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

ABSOLUTE RATINGS

PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		V_{RRM}	650	V
Maximum DC blocking voltage		V _{DC}	650	V
Maximum Average rectified output current	@T _C =115°C	I _(AV)	4	Α
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load.		I _{FSM}	28	Α
Single Pulse Avalanche Energy	@L=5mH	EAS	33	mJ
Operating junction and Storage Temperature range		TJ, TSTG	-55 ~ +175	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITIONS		SYMBOL	TYP	MAX	UNIT
Forward voltage (Note1)	I _F =4A	T _J =25°C	V _F		1.70	V
	IF-4A	T _J =175°C		1.94	2.25	
Leakage current	V _R =650V	TJ=25°C	I _R		170	uA
		T _J =175°C		16.5	550	
Typical junction capacitance (Note 2)		CJ	125		pF	

DYNAMIC ELECTRICAL CHARACTERISTICS

PARAMETER TEST CONDITIONS		SYMBOL	ТҮР	UNIT	
Total Capacitive Charge	VR=400V,dI/dt= 250A/uS,	Qc	14	nC	

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	TYP	UNIT
Typical thermal resistance (Note 3,4)	RthJ _C	7	°C/W
Typical thermal resistance (Note 3,4)	RthJ∟	5	C/VV

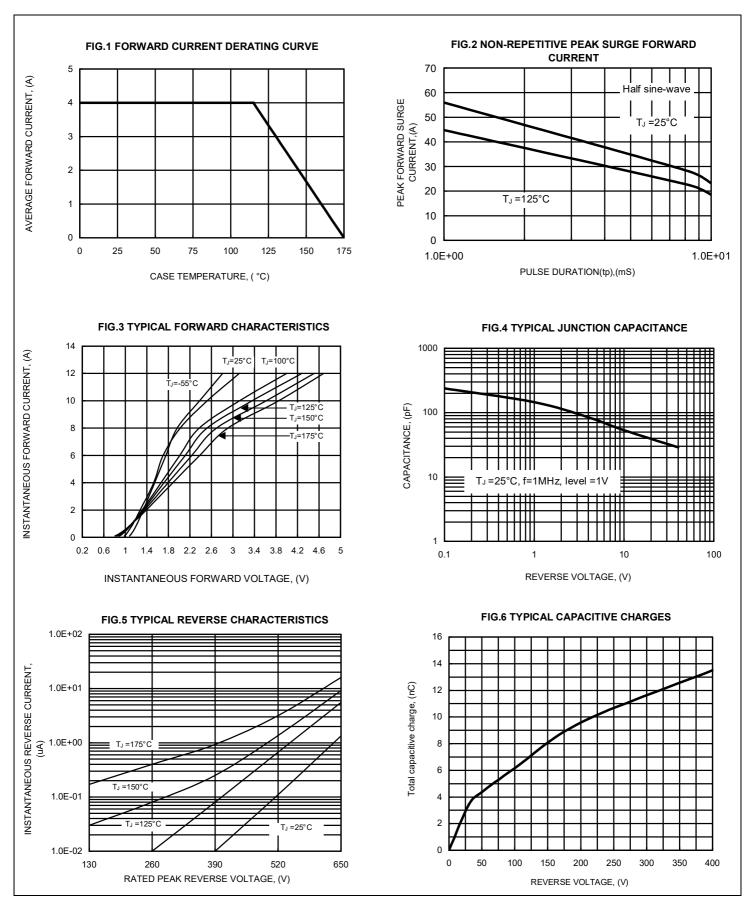
Note: (1) 300us pulse width, 2% duty cycle.

- Measured at 1.0MHz and applied voltage of 1.0V DC.
- Thermal resistance test performed in accordance with JESD-51.
- (4) The unit mounted on Aluminum fin-type Heatsink 24mm x 42 mm x 24mm.

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RATING AND CHARACTERISTIC CURVES LSC04065FW





PACKAGING INFORMATION LSC04065FW



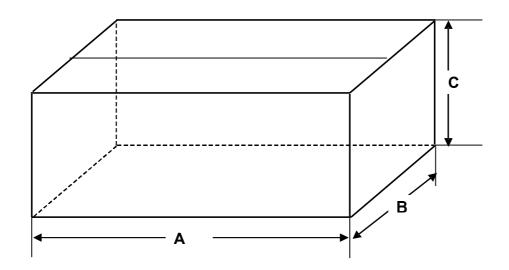
Packaging Information: 1. TUBE С Α 2. AIR BAG 3. INNERBOX

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Packaging Information:

4. CARTON



Unit:mm

P/N	DIMENSION "A"	DIMENSION "B"	DIMENSION "C"	Q'ty/per	REMARK
TUBE	536	5.6	31.8	50	1
AIR BAG	800	550	1	1	1
INNERBOX	555	165	105	2000	40TUBE
CARTON	575	179	225	4K	2 INNER BOX

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