SSC0665D

Silicon Carbide Schottky Diode，650V / 6A

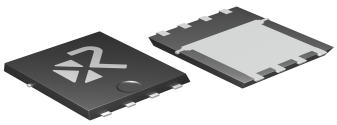
Features

- Negligible reverse recovery
- High surge current
- Positive temperature coefficient
- Higher frequency
- Halogen-free / RoHS compliant

VRRM	650V
I_F	6A（TC=153℃）
Q_C	nC

Applications

- SMPS
- Solar inverter
- Data Center
- UPS



PDFN5X6

Benefits

- High-speed switching
- Low heat dissipation requirements
- Reduce size and cost of the system
- High-reliability

Marking	Package
SSC0665D	PDFN5X6

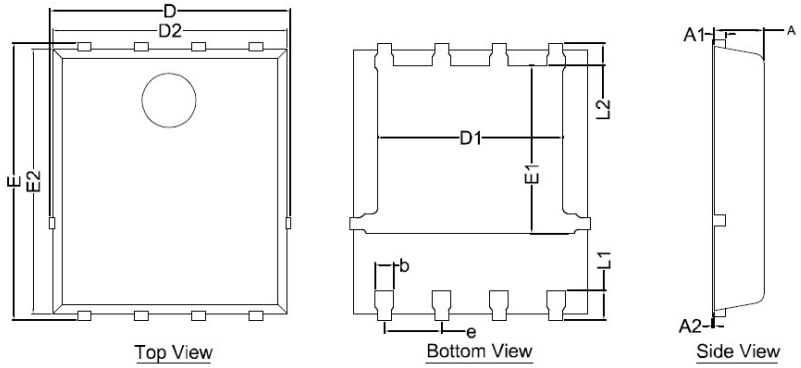
Maximum Ratings （Tc=25℃ unless otherwise noted）

Symbol	Parameter		Value	Unit	Note
V_{RRM}	Repetitisve peak reverse voltage		650	V	
I_F	Continuous forward current	Tc=153℃	6	A	
I_{FSM}	Non-repetitive forward surge current	Tc=25℃, t_p=10ms,Half sine pulse	66	A	
I_{FRM}	Repetitive Peak Forward Surge Current	Tc=25℃, t_p=10ms,Half sine pulse	60	A	

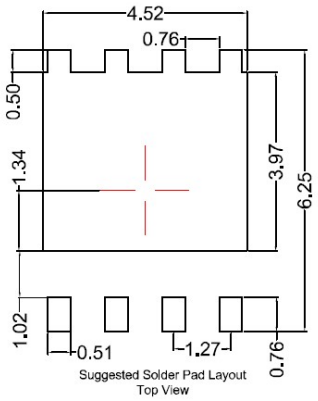
Electrical Characteristics （Tc=25℃ unless otherwise noted）

Symbol	Parameter	Test Conditions	Value			Unit	Note
			Min.	Typ.	Max.		
V_{DC}	DC blocking voltage	I_R=50uA	650	-	-	V	
V_F	Forward voltage	I_F=6A	-	1.34	1.5	V	
I_R	Reverse current	V_R=650V, Tc=25℃	-	1.2	50	uA	

■PDFN5x6 Package information



SYMBOL	MILLIMETER		
	MIN	NOM	MAX
D	5.15	5.35	5.55
E	5.95	6.15	6.35
A	1.00	1.10	1.20
A1		0.254 BSC	
A2			0.10
D1	3.92	4.12	4.32
E1	3.52	3.72	3.92
D2	5.00	5.20	5.40
E2	5.66	5.86	6.06
L1	0.56	0.66	0.76
L2		0.50 BSC	
b	0.31	0.41	0.51
e		1.27 BSC	



Note:
1.Controlling dimension:in millimeters.
2.General tolerance:±0.10mm.
3.The pad layout is for reference purposes only.