

Silicon Carbide Schottky Barrier Diode



• PFC, UPS, PV Inverter, Welder

Maximum Ratings and Thermal Characteristics (Tc = 25 °C unless otherwise specified)

PARAMETE	SYMBOL	LIMIT	UNITS		
Repetitive Peak Reverse Voltage	Vrrm	650	V		
DC Blocking Voltage	V _{DC}	650	V		
Continuous Forward Current	Tc= 150 °C	lF	4	А	
Repetitive Peak Surge Current	$T_{C}=25 \circ C$, $t_{p}=10 ms$		20	А	
Half Sine Wave, D=0.1	Tc=125 °C , t _p =10ms	IFRM	16		
Peak Forward Surge Current	$T_{C}=25 \circ C$, $t_{p}=10ms$		20		
Half Sine Wave	$T_C=125 \circ C$, $t_p =10ms$		16	A	
Peak Forward Surge Current	IFSM	280	A		
Maximum Power Dissipation	P _{total}	46	W		
Operating Junction Temperature Rar	TJ	-55~175	°C		
Storage Temperature Range	Тѕтс	-55~175	°C		



Electrical Characteristics (Tc = 25 °C unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage Drop	VF	I _F = 4 A, T _J = 25 °C	-	1.5	1.7	
		I _F = 4 A, T _J = 175 °C	-	1.8	-	V
Reverse Leakage Current	I _R	V _R = 650 V, T _J = 25 °C	-	2	40	μA
		V _R = 650 V, T _J = 175 ℃	-	0.02	-	mA
Total Capacitive Charge	Qc	$I_F = 4 \text{ A}, V_R = 400 \text{V}$	-	6.4	-	nC
Total Capacitance	С	$V_R = 1V$, f = 1MHz	-	146	-	pF
		V _R = 200V, f = 1MHz	-	9.9	-	pF
		V _R = 400V, f = 1MHz	-	6.2	-	pF
Capacitance Stored Energy	Ec	V _R = 400V	-	0.8	-	μJ
Thermal Resistance	Rejc		-	3.26	-	°C/W



PCDB0465G1





Product and Packing Information

Part No.	Package Type	Packing Type	Marking	
PCDB0465G1	TO-263	50pcs / Tube		
		800pcs / Reel	CDB0403G1	

Packaging Information & Mounting Pad Layout





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