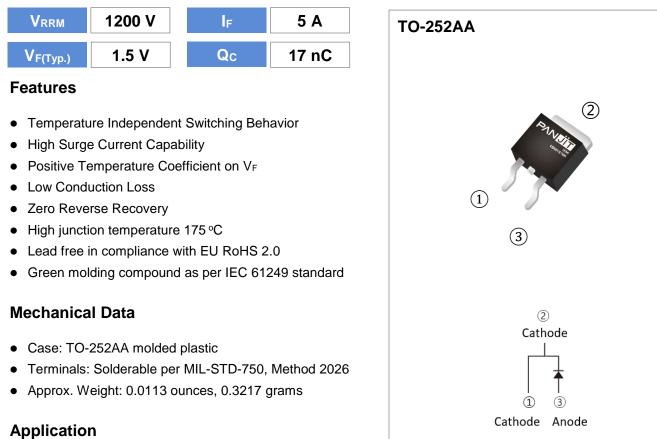


Silicon Carbide Schottky Barrier Diode



ppiloution

• 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	1200	V		
DC Blocking Voltage	V _{DC}	1200	V		
Continuous Forward Current	Tc= 165 °C	lF	5	А	
Repetitive Peak Surge Current	$T_{C}= 25 \circ C$, $t_{p} = 10 ms$		28	А	
Half Sine Wave, D=0.1	$T_C=125 \circ C$, $t_p =10ms$	IFRM	24		
Peak Forward Surge Current	$T_C= 25 \circ C$, $t_p = 10 ms$		40	A	
Half Sine Wave	$T_C=125 \ ^{\circ}C$, $t_p =10ms$		36		
Peak Forward Surge Current $t_p = 10us$, Pulse	IFSM	520	A		
Maximum Power Dissipation	P _{total}	120	W		
Operating Junction Temperature Ra	TJ	-55~175	٥C		
Storage Temperature Range	T _{STG}	-55~175	٥C		

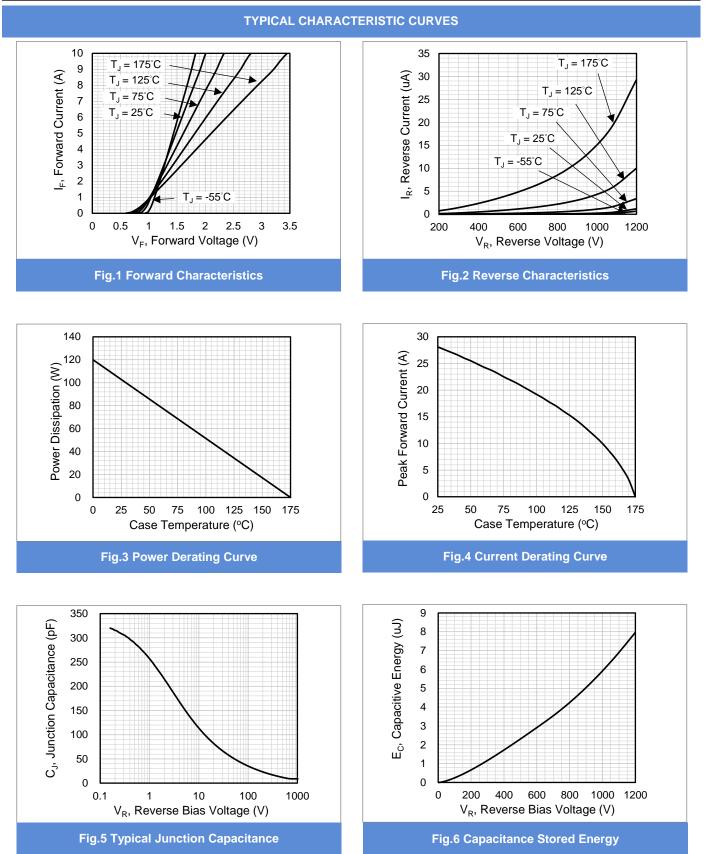


Electrical Characteristics ($T_c = 25$ °C unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Forward Voltage Drop	VF	I _F = 5 A, T _J = 25 °C	-	1.5	1.7	- V	
		I _F = 5 A, T _J = 175 °C	-	2.0	-		
Reverse Leakage Current	I _R	V _R = 1200 V, T _J = 25 °C	-	2	50	μA	
		V _R = 1200 V, T _J = 175 °C	-	0.03	-	mA	
Total Capacitive Charge	Qc	I _F = 5A, V _R = 800V	-	17	-	nC	
Total Capacitance	С	$V_R = 1V$, f = 1MHz	-	252	-	pF	
		V _R = 400V, f = 1MHz	-	13.5	-	pF	
		V _R = 800V, f = 1MHz	-	9	-	pF	
Capacitance Stored Energy	Ec	V _R = 800V	-	4.4	-	μJ	
Thermal Resistance	Rejc		-	1.25	-	°C/W	





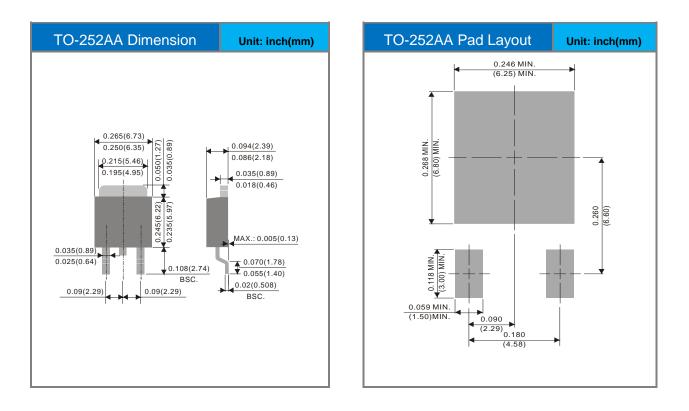




Product and Packing Information

Part No.	Package Type	Packing Type	Marking	
PCDD05120G1	TO-252AA	3,000pcs / Reel	CDD05120	

Packaging Information & Mounting Pad Layout



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