

Features

- High surge current capability
- No reverse recovery
- Positive Temperature Coefficient
- Easy to paralleling
- Halogen-free / RoHS compliant
- Compliance with EU REACH

Benefits

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

Applications

- Solar inverter
- Power factor correction
- Data Center
- Switch mode power supply

Absolute Maximum Ratings (Tc=25°C)

Symbol		Data	Unit	
V _{RRM}	Repetitisve Peak Reverse Voltage		650	V
	Continuous Forward Current	Tc=135°C	9	A
١ _F		Tc=130°C	10	A
I _{FSM}	Non-Repetitive Forward Surge Current	Tc=25°C,Tp=8.3mS,Half Sine Pulse	80	А
P _{tot}	Power Dissipation	Tc=25°C	46.8	W
TJ	Operating Junction Temperature		-55~175	°C
T _{STG}	Storage Temperature		-55~175	°C
$R_{ extsf{ heta}JC}$	Thermal Resistance Junction to Case (per leg)		TYP:3.2	°C/W

Electricity Character Per Diode (Tc=25°C)

Item	Test Condition		Value(min)	Value(typ)	Value(max)	Unit
V _B	—	Tc=25°C	650		—	V
M	V _F IF=10A	Tc=25°C	—	1.27	1.5	V
V _F		Tc=175°C	—	1.38	—	V
	\/ D =650\/	Tc=25°C	_	6	50	uA
I _R	VR=650V	Tc=175°C	—	25	—	uA
С	f=1MHZ	VR=1V		510	—	pF
		VR=200V	—	66	—	pF
		VR=400V	_	48	_	pF
Q _c	VR=400V,IF=10	A,di/dt=200A/µS	_	25	_	nC



ECR1065AN Silicon Carbide Schottky Diode





Electrical Characteristic Curves







Package Outline Dimensions



Suggested Solder Pad Layout



Marking Information



 "MHCHXM"= Product Logo

 "Marking Code"= The Following

 "XXXX"= Date Code Marking

 Marking Code
 Part Number

- I	U	
	ECR1065AN	ECR1065AN-HF





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The Orientation Of The Product In The Carrier Tape



Packing Information

Packaging	Part Number	Quantity(pcs)	Size(mm)
	Reel	5000	Ф330×THK15
Reel	Inner Box	10000	L355×W335×H48
	Outer Box	80000	L415×W375×H360

Packaging:Reel



Reel







Reel Outer Box





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