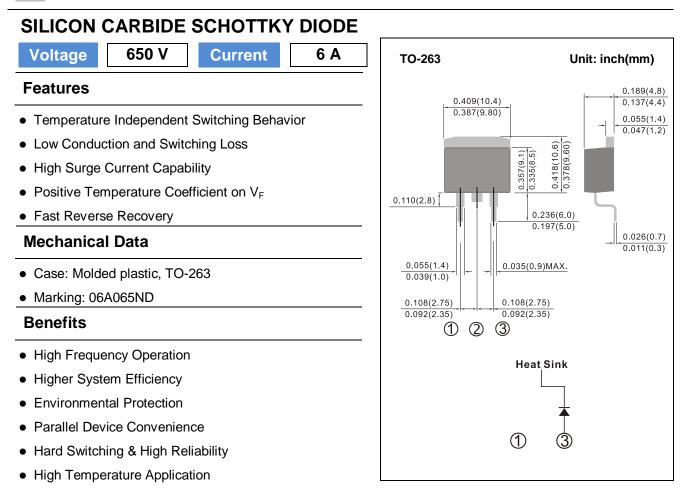
	1.1
ΡΛΝ	JIT
	SEMI
	CONDUCTOR



#### **Maximum Ratings**

PARAMETER	SYMBOL	TEST CONDITIONS	VALUE	UNITS
Maximum Repetitive Peak Reverse Voltage	Vrrm	TJ=25°C	650	V
Maximum RMS Voltage	Vrsm	TJ=25°C	650	V
Maximum DC Blocking Voltage	Vr	TJ=25°C	650	V
		Tc=25°C	18	А
Continuous Forward Current	IF(AV)	Tc=125°C	8	А
		Tc=150°C	6	А
Repetitive Peak Forward Surge Current		Tc=25°C	42	А
$(T_P=10mS, Half Sine Wave, D=0.1)$	I <sub>FRM</sub>	Tc=125°C	37	А



#### **Maximum Ratings**

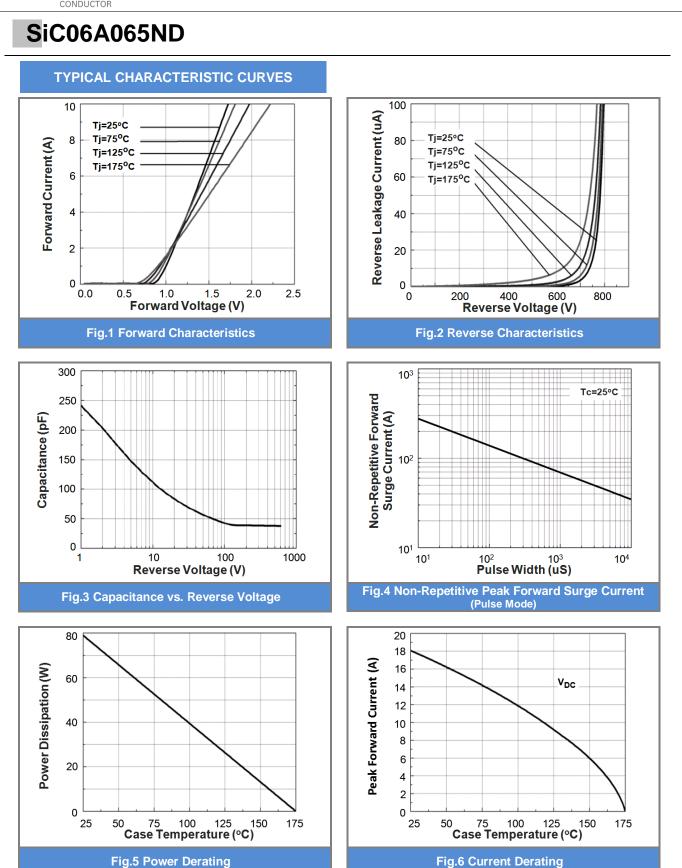
PARAMETER	SYMBOL	TEST CONDITIONS	VALUE	UNITS
Non-Repetitive Peak Forward Surge Current		Tc=25°C	50	А
(T <sub>P</sub> =10mS, Half Sine Wave)		Tc=125°C	44	А
Non-Repetitive Peak Forward Surge Current	I <sub>FSM</sub>			_
(T <sub>P</sub> =10uS, Pulse)		Tc=25°C	210	A
	P <sub>D</sub>	Tc=25°C	78	W
Power Dissipation		Tc=125°C	26	W
Operating Junction Temperature	TJ		175	°C
Storage Temperature	T <sub>STG</sub>		-55 to 175	°C
Thermal Resistance Junction to Case	R <sub>θJC</sub>		1.9	°C/W

#### **Electrical Characteristics**

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
DC Blacking Voltage	V <sub>DC</sub>	I <sub>R</sub> =100uA, TJ=25°C	650	770	-	V
Forward Voltage		I <sub>F</sub> =6A, TJ=25°C	-	1.5	1.8	V
	V <sub>F</sub>	Ι <sub>F</sub> =6A, Τ <sub>J</sub> =175°C	-	1.9	2.2	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =650V, TJ=25°C	-	3	50	uA
		V <sub>R</sub> =650V, TJ=175°C	-	17	190	uA
Total Capacitive Charge Q		I <sub>F</sub> =6A, di/dt=300A/uS,	-	12	-	
	Q <sub>C</sub>	V <sub>R</sub> =400V, TJ=25°C				nC
Total Capacitance C	С	V <sub>R</sub> =1V, T <sub>J</sub> =25°C, f=1MHz	-	234	-	pF
		V <sub>R</sub> =200V, TJ=25°C, f=1MHz	-	36	-	pF
		V <sub>R</sub> =400V, TJ=25°C, f=1MHz	-	36	-	pF

SEMI CONDUCTOR

PANJ

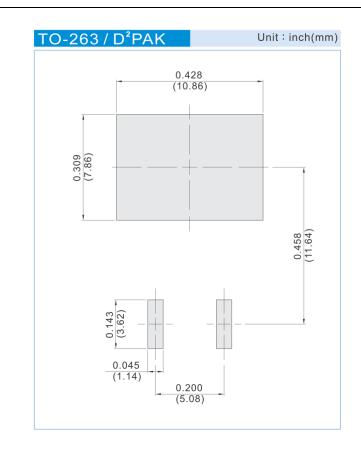




#### Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SIC06A065ND_R2_00001	TO-263	800pcs / 13" reel	06A065ND	Halogen free

### **Mounting Pad Layout**





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