Voltage 650 V Current 4 A	TO-220AC
Features	0.419(1
Temperature Independent Switching Behavior	Ø0.156(3 Ø0.147(3
 Low Conduction and Switching Loss 	
High Surge Current Capability	¥ X
 Positive Temperature Coefficient on V_F 	(1.6)MAX
Fast Reverse Recovery	0.063(1
Mechanical Data	

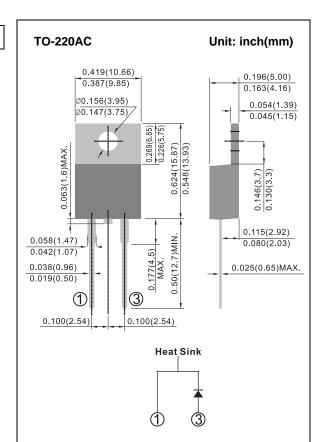
- Case: Molded plastic, TO-220AC
- Marking: 04A065T

Benefits

- High Frequency Operation
- Higher System Efficiency •
- **Environmental Protection** •
- Parallel Device Convenience •
- Hard Switching & High Reliability •
- High Temperature Application ٠

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
	lf(AV)	Tc=25°C	11	А
Continuous Forward Current		Tc=125°C	6	А
		Tc=150°C	4	А
Repetitive Peak Forward Surge Current		Tc=25°C	26	А
(T _P =10mS, Half Sine Wave, D=0.1)	I _{FRM}	Tc=125°C	23	А





SiC04A065T

SILICON CARBIDE SCHOTTKY DIODE





SiC04A065T

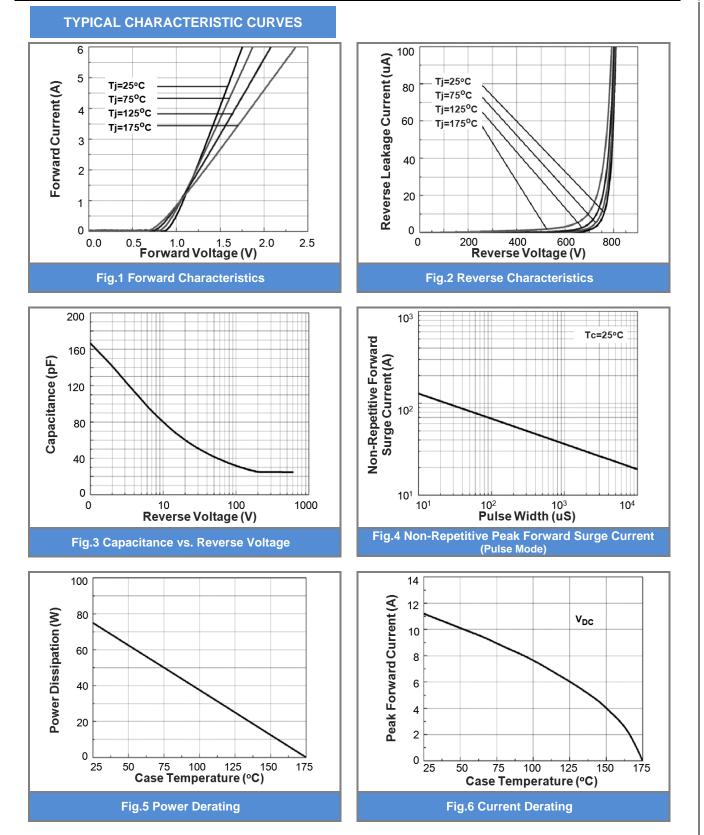
Maximum Ratings

PARAMETER	SYMBOL	TEST CONDITIONS	VALUE	UNITS
Non-Repetitive Peak Forward Surge Current		Tc=25°C	29	А
(T _P =10mS, Half Sine Wave)		Tc=125°C	24	А
Non-Repetitive Peak Forward Surge Current (T _P =10uS, Pulse)	IFSM	Tc=25°C	127	А
Power Dissipation	P _D	Tc=25°C Tc=125°C	75 25	W W
Operating Junction Temperature	TJ		175	°C
Storage Temperature	T _{STG}		-55 to 175	°C
Thermal Resistance Junction to Case	$R_{ extsf{ heta}JC}$		2	°C/W

Electrical Characteristics

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
DC Blacking Voltage	V _{DC}	I _R =100uA, TJ=25°C	650	770	-	V
Forward Voltage	V _F	I _F =4A, TJ=25°C	-	1.5	1.8	V
		I _F =4A, ΤJ=175°C	-	1.9	2.2	V
Reverse Current	I _R	V _R =650V, TJ=25°C	-	1	50	uA
		V _R =650V, TJ=175°C	-	6	190	uA
Total Capacitive Charge	Q _c	I _F =4A, di/dt=300A/uS,	-	11	-	nC
		V _R =400V, TJ=25°C				
Total Capacitance	с	V _R =1V, TJ=25°C, f=1MHz	-	155	-	pF
		V _R =200V, TJ=25°C, f=1MHz	-	25	-	pF
		V _R =400V, TJ=25°C, f=1MHz	-	25	-	pF

February 11,2015-REV.01



SiC04A065T





SiC04A065T

Part No Packing Code Version

Part No Packing Code	Package Type	Packing type	Marking	Version
SIC04A065T_T0_00001	TO-220AC	50pcs / Tube	04A065T	Halogen free



SiC04A065T

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