

Features

- · Zero Reverse Recovery Current
- · Positive Temperature Coefficient
- · High-Speed Switching
- · Epoxy Meets UL 94 V-0 Flammability Rating
- · Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)

Benefits

- · Temperature-Independent Performance
- · Low Switching Loss
- · Low Heat Dissipation Requirements

Applications

- Switching Power Supply
- Power Factor Correction
- · Motor Drive, Traction
- · Charging Pile

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C
- Thermal Resistance: 3.5°C/W Junction to Case

MCC Part Number	Device Marking
SICF1060P	SICF1060P

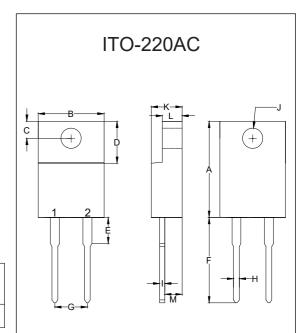
Peak Repetitive Reverse Voltage	V_{RRM}	650V	
Surge Peak Reverse Voltage	V _{RSM}	650V	
DC Reverse Voltage	V _{DC}	650V	
Average Forward Current	I _F	10A	T _J =155°C
Peak Forward Surge Current	I _{FSM}	49A	T _C =25°C, t _p =10ms, Half Sine Pulse
Power Dissipation	P _D	43W	T _C =25°C

Note:1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7a.

Internal Structure:

PIN 1 CASE

10Amp Silicon Carbide Schottky Barrier Rectifier 650 Volts



	DIMENSIONS				
DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN MAX	NOTE	
Α	0.567	0.606	14.40	15.40	
В		0.406		10.30	
С	0.100	0.112	2.55	2.85	
D	0.248	0.272	6.30	6.90	
E		0.161		4.10	
F	0.500	0.543	12.70	13.80	
G	0.2	200	5.	10	
Н		0.035		0.90	
I		0.032		0.80	
J	0.102	0.134	2.60	3.40	Ф
K		0.189		4.80	
L		0.123		3.10	
М	0.098	0.114	2.50	2.90	

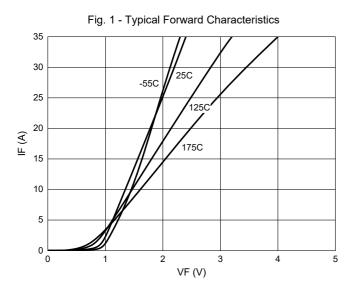


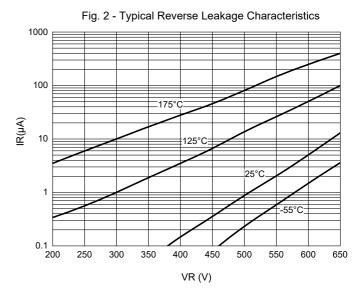
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

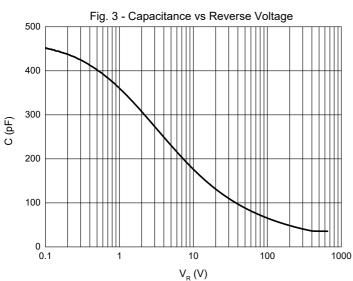
Parameter	Symbol	Conditions	Тур.	Max.	Units
Forward Voltage V _F		I _F =10A, T _J =25°C	1.39	1.6	V
	I _F =10A, T _J =175°C	1.65		V	
Reverse Leakage Current I _R	ı	V _R =650V, T _J =25°C	12.8	44	μA
	V _R =650V, T _J =175°C	424		μA	
Total Capacitive Charge	Q _C	V _R =400V	24.8		nC
		V _R =0V, f=1MHz	452		pF
Total capacitance	С	V _R =200V, f=1MHz	48		pF
		V _R =400V, f=1MHz	36		pF
Capacitance Stored Energy	E _C	V _R =400V	2.92		μJ

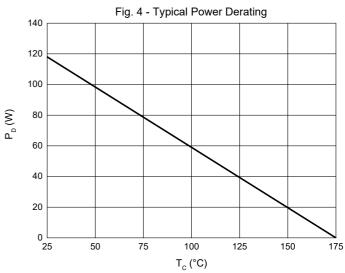


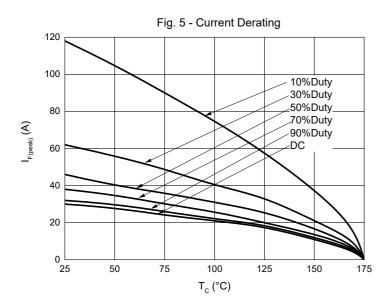
Curve Characteristics













Ordering Information

Device	Packing
SICF1060P-BP	Bulk: 50pcs/Tube

Note: Adding "-HF" Suffix for Halogen Free, eg. Part Number-BP-HF

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