

Features

- · Zero Reverse Recovery Current
- · Positive Temperature Coefficient
- · High-Speed Switching
- Epoxy Meets UL 94 V-0 Flammability Rating
- · Halogen Free. "Green" Device (Note 1)
- 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: 1.0°C/W Junction to Case

MCC Part Number	Device Marking	
SICAC0860P	SICAC0860P	

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	8A	T _J =153°C
Peak Forward Surge Current	I _{FSM}	39A	T _C =25°C, t _p =10ms, Half Sine Pulse
Power Dissipation	P _D	150W	T _C =25°C

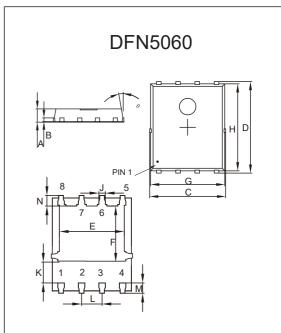
Note:1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

2. High Temperature Solder Exemptions Applied, see EU Directive Annex 7a.

Internal Structure:



8Amp Silicon Carbide Schottky Barrier Rectifier 650 Volts



	DIMENSIONS				
DIM INC		HES MM		М	NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.031	0.047	0.80	1.20	
В	0.010		0.254		TYP.
С	0.193	0.222	4.90	5.64	
D	0.232	0.250	5.90	6.35	
E	0.148	0.167	3.75	4.25	
F	0.126	0.154	3.20	3.92	
G	0.189	0.213	4.80	5.40	
Н	0.222	0.239	5.65	6.06	
K	0.045	0.059	1.15	1.50	
J	0.012	0.020	0.30	0.50	
L	0.046	0.054	1.17	1.37	
М	0.012	0.028	0.30	0.71	
N	0.016	0.028	0.40	0.71	

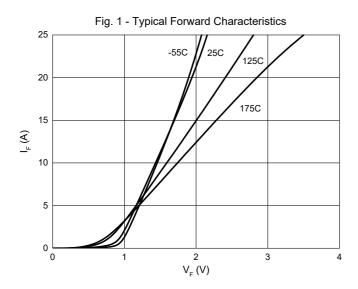


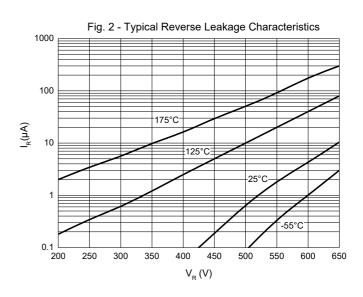
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

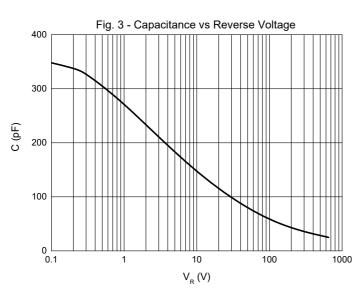
Parameter	Symbol	Conditions	Тур.	Max.	Units
Forward Voltage	V_{F}	I _F =8A, T _J =25°C	1.39	1.6	V
		I _F =8A, T _J =175°C	1.65		V
Reverse Leakage Current	1	V _R =650V, T _J =25°C	10.2	36	μA
	I _R	V _R =650V, T _J =175°C	301		μA
Total Capacitive Charge	Q _C	V _R =400V	19.6		nC
		V _R =0V, f=1MHz	346		pF
Total capacitance		V _R =200V, f=1MHz	39		pF
		V _R =400V, f=1MHz	30		pF
Capacitance Stored Energy	E _C	V _R =400V	2.42		μJ

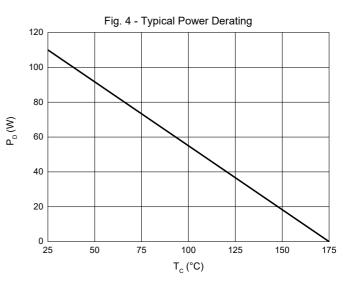


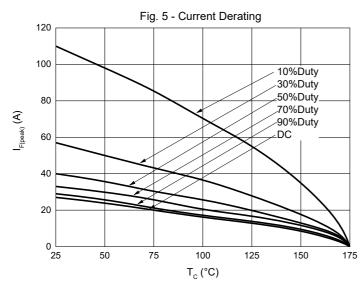
Curve Characteristics













Ordering Information

Device	Packing
SICAC0860P-TP	Tape&Reel:5Kpcs/Reel

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