

Features

- Zero Reverse Recovery Current
- Positive Temperature Coefficient
- High-Speed Switching
- Moisture Sensitivity Level 1
- 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: 1.5°C/W Junction to Case

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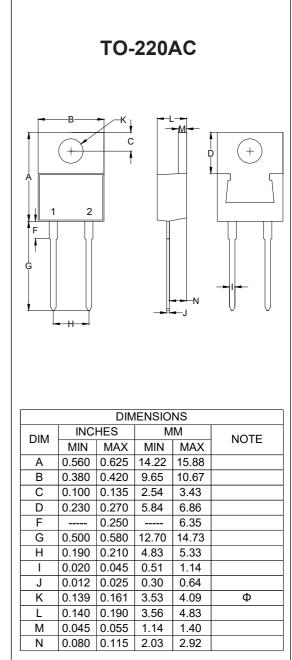
Part Number		Device Marking SIC0660P		
SIC0660P				
Peak Repetitive Reverse Voltage	V _{RRM}	650V		
Surge Peak Reverse Voltage	V_{RSM}	650V		
DC Reverse Voltage	V_{DC}	650V		
Average Forward Current	I _F	6A	T _J =160°C	
Peak Forward Surge Current	I _{FSM}	45A	T _C =25°C, t _p =10ms, Half Sine Pulse	
Power Dissipation	P_D	100W	T _C =25°C	

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

Internal Structure:



6Amp Silicon Carbide Schottky Barrier Rectifier 650 Volts





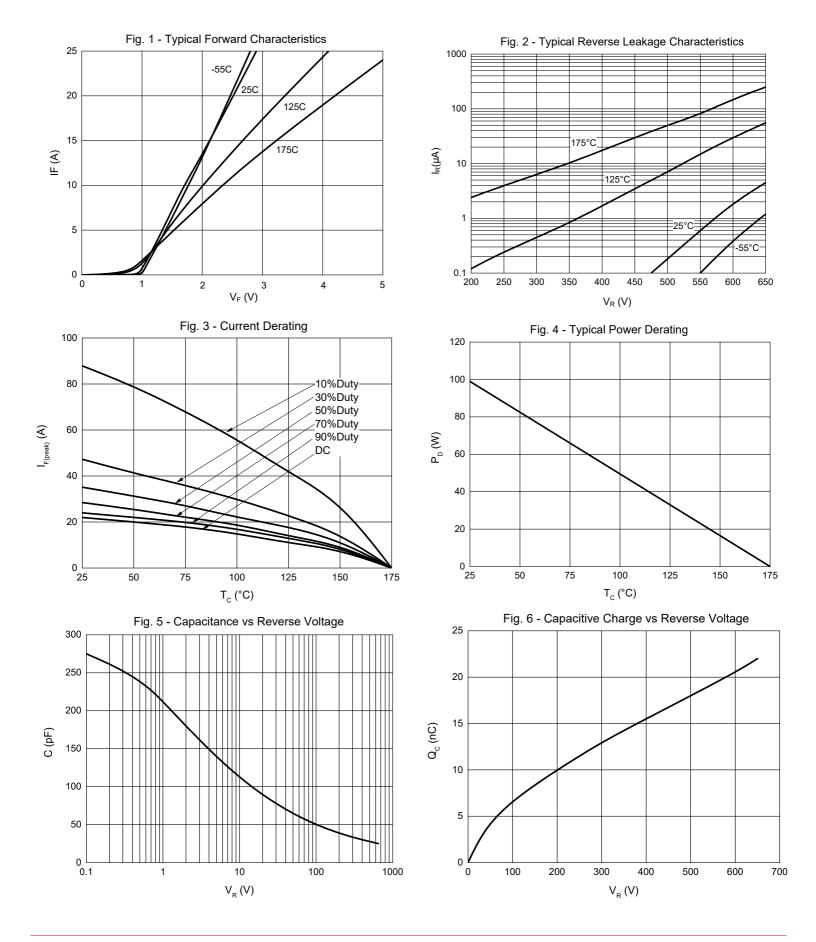
Electrical Characteristics	@ 25°C ((Unless Otherwise Specified)

Parameter	Symbol	Conditions	Тур.	Max.	Units
Forward Voltage	V _F	I _F =6A, T _J =25°C	1.39	1.6	V
		I _F =6A, T _J =175°C	1.65		V
Reverse Leakage Current	I _R	V _R =650V, T _J =25°C	3.8	30	μA
		V _R =650V, T _J =175°C	255		μA
Total Capacitive Charge	Q _C	V _R =400V	15.6		nC
Total capacitance	С	V _R =0V, f=1MHz	271		pF
		V _R =200V, f=1MHz	31		pF
		V _R =400V, f=1MHz	25		pF
Capacitance Stored Energy	E _c	V _R =400V	2.01		μJ



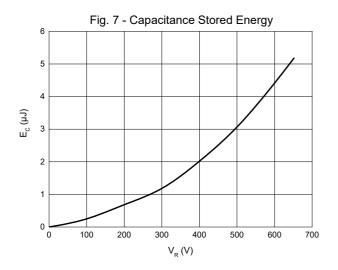


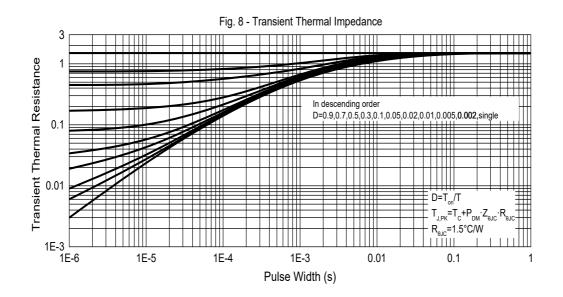
Curve Characteristics





Curve Characteristics







Ordering Information

Device	Packing
SIC0660P-BP	Bulk: 50pcs/Tube

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