

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 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
- · Essentially No Switching Loss
- · Higher Efficiency
- · Reduced EMI
- · Reduction of Heat Sink Requirements

Applications

- · Switching Power Supply
- · Power Factor Correction
- Solar Inverter

Maximum Ratings

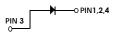
- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C
- Thermal Resistance: 4.55°C/W Junction to Case

MCC Part Number		Device Marking		
SICU0260B		SI	CU0260B	
Peak Repetitive Reverse	.,	CEOV.		

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	2A	T _C =160°C
Peak Forward Surge Current	I _{FSM}	22A	T _C =25°C, t _p =10ms, Half Sine Pulse
Repetitive Peak Forward Current	I _{FRM}	13A	T _C =25°C, t _p =10ms, Half Sine Pulse
Power Dissipation	P_D	33W	T _C =25°C

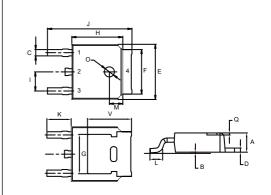
Note:1. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.

Internal Structure:



2 Amp Silicon Carbide Schottky Barrier Rectifier 650 Volts

DPAK



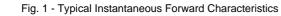
	DIMENSIONS				
DIM	INCHES		M	IM	NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.087	0.094	2.20	2.40	
В	0.000	0.005	0.00	0.13	
С	0.026	0.034	0.66	0.86	
D	0.018	0.023	0.46	0.58	
E	0.256	0.264	6.50	6.70	
F	0.201	0.215	5.10	5.46	
G	0.1	90	4.8	83	TYP.
Н	0.236	0.244	6.00	6.20	
I	0.086	0.094	2.18	2.39	
J	0.386	0.409	9.80	10.40	
K	0.1	14	2.9	90	TYP.
L	0.055	0.067	1.40	1.70	
М	0.0	63	1.0	60	TYP.
0	0.043	0.051	1.10	1.30	
Q	0.000	0.012	0.00	0.30	
V	0.2	11	5.3	35	TYP.

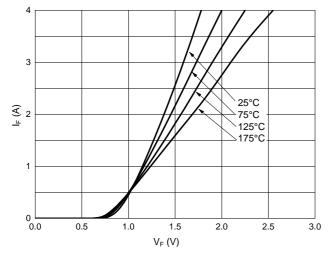


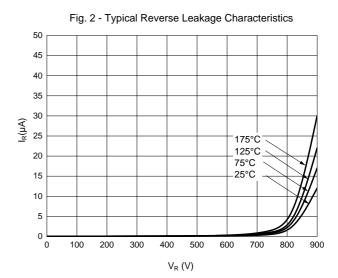
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Тур.	Max.	Units
Forward Voltage	V_{F}	I _F =2A, T _J =25°C	1.4	1.6	V
		I _F =2A, T _J =175°C	1.8	2.5	V
Reverse Leakage Current	I _R	V _R =650V, T _J =25°C	1	10	μA
		V _R =650V, T _J =175°C	10	50	μA
Total Capacitive Charge	Q _C	V _R =400V	5.8		nC
Total capacitance	С	V _R =0V, f=1MHz	175		pF
		V _R =200V, f=1MHz	10.5		pF
		V _R =400V, f=1MHz	8.5		pF
Capacitance Stored Energy	E _C	V _R =400V	0.8		μJ

Curve Characteristics

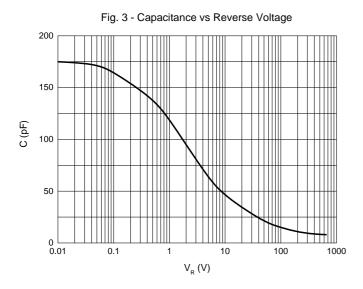


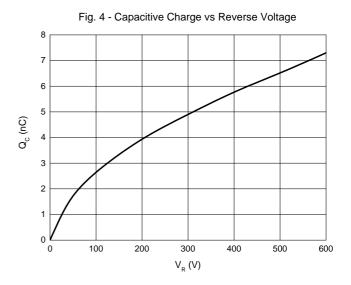


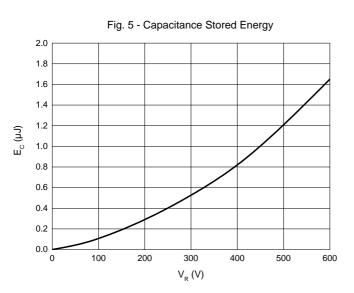


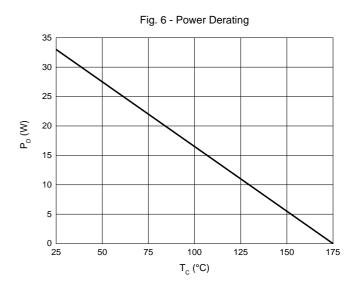


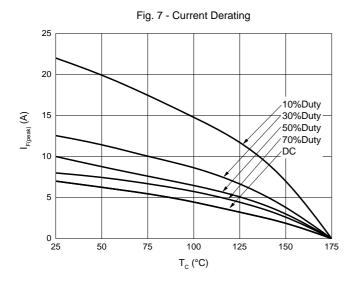
Curve Characteristics

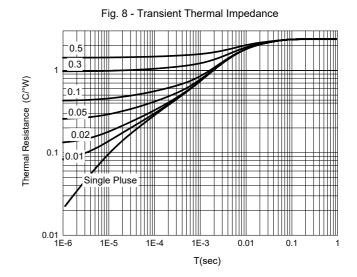














Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel

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

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