

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Super Fast Recovery Times For High Efficiency
- Halogen Free Available Upon Request By Adding Suffix "-HF"

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 12°C/W Junction to Lead

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
ER5A	ER5A	50V	35V	50V
ER5B	ER5B	100V	70V	100V
ER5C	ER5C	150V	105V	150V
ER5D	ER5D	200V	140V	200V
ER5G	ER5G	400V	280V	400V
ER5J	ER5J	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

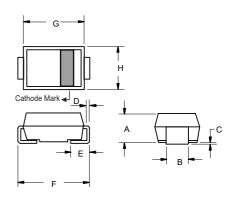
Average Forward Current	I _{F(AV)}	5.0A	T _L =85°C
Peak Forward Surge Current	I _{FSM}	175A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage ER5A-ER5D ER5G ER5J	V _F	1.00V 1.30V 1.70V	I _{FM} =5.0A; T _A =25°C*
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	5μΑ 100μΑ	T _A =25°C T _A =100°C
Maximum Reverse Recovery Time	t _{rr}	35ns	I _F =0.5A, I _R =1.0A, Irr=0.25A
Typical Junction Capacitance ER5A-ER5G ER5J	CJ	100pF 65pF	Measured at 1.0MHz V _R =4.0V

^{*}Pulse Test: Pulse Width 300 µsec, Duty Cycle 1%

Notes:1.High Temperature Solder Exemption Applied, See EU Directive Annex Notes 7a.

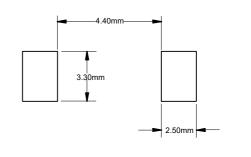
5 Amp Super Fast Recovery Rectifiers 50 to 600 Volts

SMC (DO-214AB)



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.079	0.103	2.00	2.62	
В	0.108	0.128	2.75	3.25	
С	0.002	0.008	0.051	0.203	
D	0.006	0.012	0.152	0.305	
Е	0.030	0.060	0.76	1.52	
F	0.305	0.320	7.75	8.13	
G	0.260	0.280	6.60	7.11	
Н	0.220	0.245	5.59	6.22	

Suggested Solder Pad Layout





Curve Characteristics

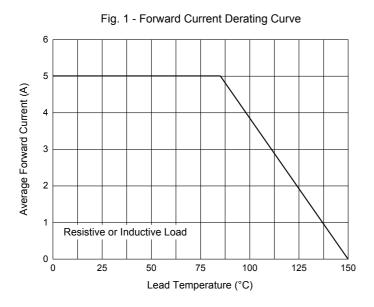


Fig. 3 - Typical Instantaneous Forward Characteristics

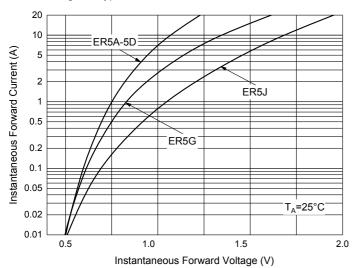
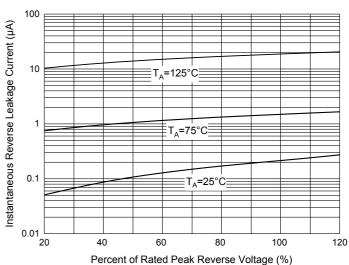


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge

Current

175
150
95
125
100
8.3 ms Single Half Sine-Wave
25
1 10 100
Number of Cycles at 60 Hz

Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel: 3Kpcs/Reel	

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

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. **Micro Commercial Components Corp**. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp**, and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

Rev.3-1-01012019 3/3 MCCSEMI.COM