

ROHS

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 ER300 THRU ER306

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Superfast recovery times-epitaxial construction
- Low leakage, High surge capability
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Junction Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

Typical Thermal Resistance 20°C/W Junction to ambient

MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
Number		Peak Reverse	Voltage	Blocking
		Voltage		Voltage
ER300	ER300	50V	35V	50V
ER301	ER301	100V	70V	100V
ER301A	ER301A	150V	105V	150V
ER302	ER302	200V	140V	200V
ER303	ER303	300V	210V	300V
ER304	ER304	400V	280V	400V
ER306	ER306	600V	420V	600V

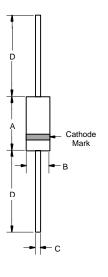
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	3 A	T _A = 55°C
Peak Forward Surge Current	I _{FSM}	125A	8.3ms, half sine
Maximum			
Instantaneous			
Forward Voltage			
ER300-302	V_F	0.95V	$I_{FM} = 3.0A;$
ER303-304		1.25V	$T_A = 25^{\circ}C$
ER306		1.70V	
Maximum DC			
Reverse Current At	I_{R}	5μΑ	$T_A = 25^{\circ}C$
Rated DC Blocking		300μΑ	T _A = 125°C
Voltage		•	
Maximum Reverse			
Recovery Time			
	T_{rr}	35ns	$I_F=0.5A, I_R=1.0A,$
			I _{rr} =0.25A
Typical Junction			
Capacitance			
	C_{J}	35pF	Measured at
			1.0MHz, $V_R=4.0V$

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

3 Amp Super Fast Recovery Rectifier 50 to 600 Volts

DO-201AD



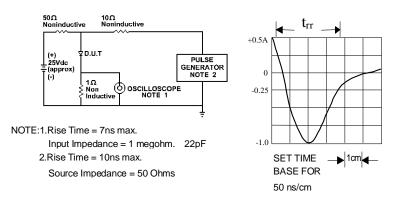
DIMENSIONS							
	INCHES		MM				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.287	.374	7.30	9.50			
В	.189	.208	4.80	5.30			
С	.048	.052	1.20	1.30			
D	1.000		25.40				

ER300 thru ER306

RATING AND CHARACTERISTIC CURVES



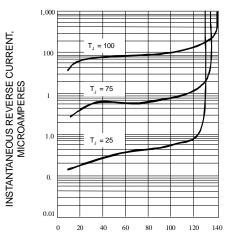
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AMBIENT TEMPERATURE, °C

Fig. 1-REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

Fig. 2-MAXIMUM AVERAGE FORWARD CURRENT RATING





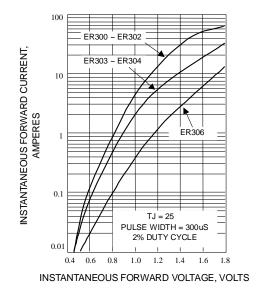


Fig. 4-FORWARD CURRENT DERATING CURVE



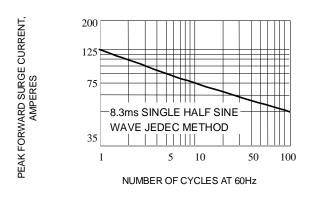


Fig. 5-MAXIMUM NON-REPETITIVE SURGE CURRENT

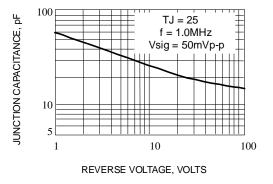


Fig. 6-TYPICAL JUNCTION CAPACITANCE



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Ordering Information:

Device	Packing	
(Part Number)-TP	Tape&Reel 1.2Kpcs/Reel	
(Part Number)-AP	Ammo Packing;1.2Kpcs/AmmoBox	
(Part Number)-BP	Bulk;12Kpcs/Carton	

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