imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 (818) 701-4939 Fax:

Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)

- High Surge Current Capability High Reliability Low Forward Voltage Drop Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- For capacitive load, derate current by 20%

Tor capacitive load, derate current by 20%						
MCC	Device	Maximum	Maximum	Maximum		
Catalog	Marking	Recurrent	RMS	DC		
Number		Peak Reverse Voltage		Blocking		
		Voltage	_	Voltage		
HER151	HER151	50V	35V	50V		
HER152	HER152	100V	70V	100V		
HER153	HER153	200V	140V	200V		
HER154	HER154	300V	210V	300V		
HER155	HER155	400V	280V	400V		
HER156	HER156	600V	420V	600V		
HER157	HER157	800V	560V	800V		
HER158	HER158	1000V	700V	1000V		

Electrical Characteristics @ 25°C Unless Otherwise Specified-

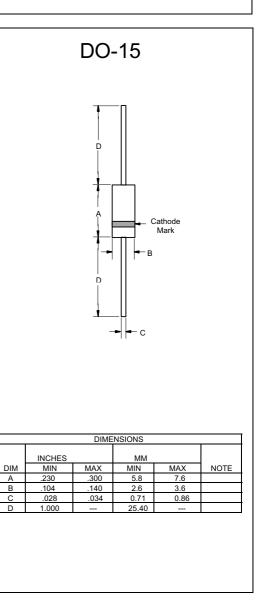
Average Forward Current	I _{F(AV)}	1.5 A	T _A = 55°C
Peak Forward Surge Current	I _{FSM}	50A	8.3ms, half sine
Maximum			
Instantaneous			
Forward Voltage			
HER151-154	V_{F}	1.0V	I _{FM} = 1.5A*;
HER155 HER156-158		1.3V 1.7V	T _A = 25°C
Reverse Current At	I _R	5.0μA	T _A = 25°C
Rated DC Blocking	'R	5.0μA 100μA	$T_{A} = 25 \text{ C}$ $T_{A} = 100^{\circ}\text{C}$
Voltage (Maximum DC)		ΤΟΟμΑ	T _A = 100 C
Maximum Reverse			
Recovery Time			
HER151-155	T _{rr}	50ns	I _F =0.5A, I _R =1.0A,
HER156-158		75ns	I _{rr} =0.25A
Typical Junction			
Capacitance			
HER151-155	CJ	50pF	Measured at
HER156-158		30pF	1.0MHz, V _R =4.0V

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

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

HER151 THRU **HER158**

1.5 Amp High **Efficient Rectifiers** 50 to 1000 Volts



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HER151 thru HER158

RATINGS AND CHARACTERISTIC CURVES

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

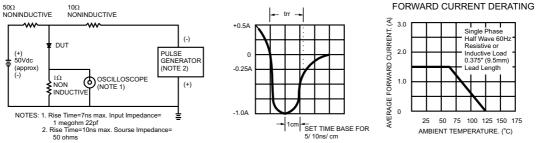
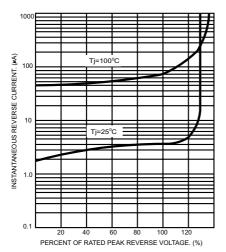
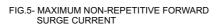


FIG.3- TYPICAL REVERSE CHARACTERISTICS





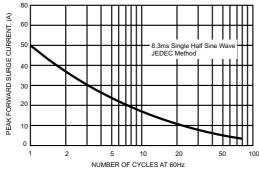


FIG.4- TYPICAL FORWARD CHARACTERISTICS

FIG.2- MAXIMUM AVERAGE

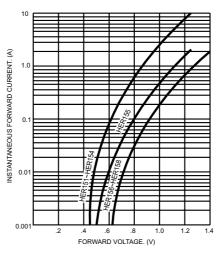
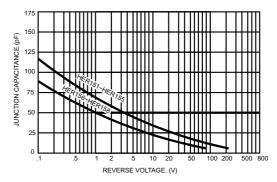


FIG.6- TYPICAL JUNCTION CAPACITANCE



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Ordering Information :

Device	Packing	
Part Number-TP	Tape&Reel: 4Kpcs/Reel	
Part Number-AP	Ammo Packing: 3Kpcs/Ammo Box	
Part Number-BP	Bulk: 25Kpcs/Carton	

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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