

CREATEK Microelectronics

High Efficient Rectifier in DO-204AL(DO-41)

Features

- High surge current capability
- High current capability
- High reliability
- High efficiency



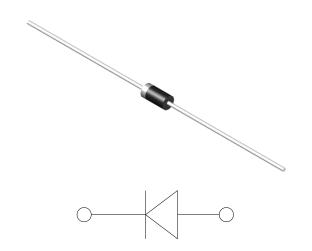
Case: JEDEC DO-41 molded plastic Lead free; RoHS compliant

■ Molding Compound Flammability Rating:

UL 94 V-0

■ **Terminals:** High temperature soldering guaranteed:

260 °C/10 sec. at terminals



Maximum Ratings And Electrical Characteristics

Ratings at 25 C ambient temperature unless otherwise specified. Single phase half-wave 60Hz,resistive or inductive load, for capacitive load current derate by 20%.

Parameter	Symbols	HER 101	HER 102	HER 103	HER 104	HER 105	HER 106	HER 107	HER 108	Units
Maximum repetitive peak reverse voltage	VRRM	50	100	200	300	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	210	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	300	400	600	800	1000	V
Maximum average forward rectified current at TL=100°C	l(AV)	1.0				А				
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	Ігѕм	35.0				А				
Maximum instantaneous forward voltage at 1.0A	VF	1.0 1.4 1.7			V					
Maximum DC reverse current TA =25°C at rated DC blocking voltage TA=125°C	lr	10.0 500			u A					
Maxinum reverse recovery time(Note 1)	Trr	50 75		ns						
Typical junction capacitance (Note2)	C¹	25.0			pF					
Typical thermal resistance	RqJA	65.0				°C/W				
Operating junction and storage temperature range	ТЈ,Тѕтс	-55 to +150			°C					

Note: 1.Reverse recovery time test condition: IF=0.5A IR=1.0A Irr=0.25A 2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

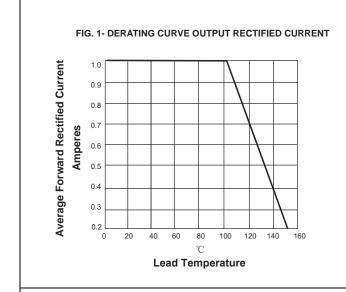
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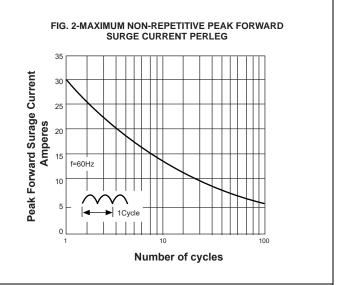


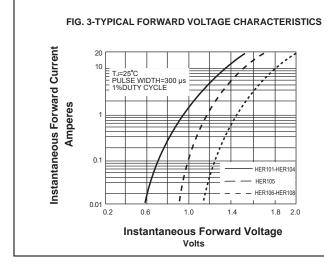
HER101 thur HER108

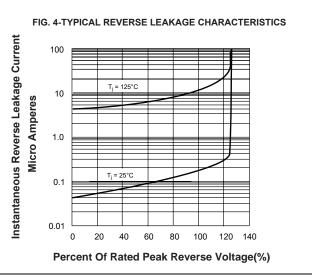
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$\textbf{Typical Characteristics} \ (\textbf{T}_{amb} = 25 \ ^{\circ}\textbf{C} \ unless \ otherwise \ specified)$



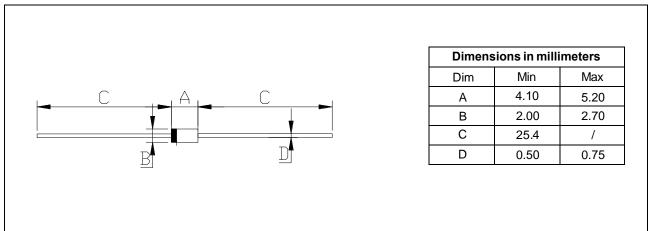






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Package Dimensions



Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification	
HER101 thur HER108	DO-41	Tape and BOX	5000pcs	EIA STD RS-481	

Revision history

Date	Revision	Changes
23-May-2012	1.0	Initial release



HER101 thur HER108

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