HER252 THRU HER258 DO-15

High Efficiency Silicon Rectifiers

Reverse Voltage - 100 to 1000 V

Forward Current 2.5 A

FEATURES

- For surface mounted applications
- Low profile package
- Open Junction chip
- Ideal for automated placement
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- Case: DO-15
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.33g / 0.0116oz

Maximum Ratings and Electrical characteristics

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

Parameter	Symbols	HER252	HER253	HER255	HER256	HER257	HER258	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at T_c = 100 °C	$I_{F(AV)}$	2.5						A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}	100.0						A
Maximum Instantaneous Forward Voltage at 2.5A	V_F	0.95		1.25	1.65			V
Maximum DC Reverse Current T_a = 25 °C at Rated DC Blocking Voltage T_a=125 °C	I_R	10 500						
Maxinum reverse recovery time(Note 1)	Trr	50			75			nS

Typical Junction Capacitance M M E0 /Fev-RTJ /DevMCSP <</MCID 126>> BDC 65.04 -3839996 TD[()]TJts

550

1 **Measured at 1 MHz and applied reverse voltage of 4 V D.C**

2 **Reverse recovery time test condition: IF=0.5A IR=1.0A Irr=0.25A**

Instantaneous Reverse Leakage Cu46307 317.139 1D[(463I5 284.139 20.78307 317.139 20.78379 384.139 10 076307 317.139 10 076392 349307 23

Micro Amperes

3 -60.0197stantaneous ReverseForwardt

FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

Percent Of Rated Peak Reverse Voltage(%)

Ordering information

Package	Packing Description	Packing Quantity
DO-15	bulk	500PCS/Inner Box 30000PCS/Carton
	ammo pack	3000PCS/Inner Box 30000PCS/Carton

Package Dimensions

DO-15

Dim.	Millimeter(mm)		INCHES	
	Min.	Max.	Min.	Max.
A	5.80	7.60	0.230	0.300
B	2.60	3.60	0.104	0.140
C	0.71	0.86	0.028	0.034
D	25.4	-	1.00	- D

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