

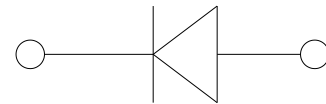
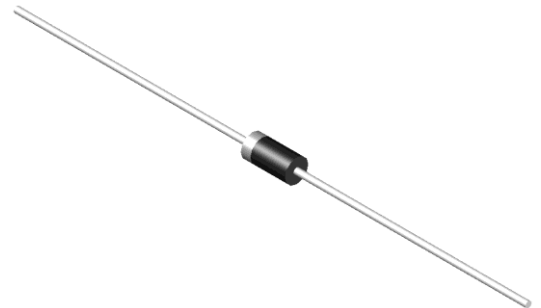
High Efficient Rectifier in DO-201AD(DO-27)

Features

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

Mechanical Data

- **Case:** JEDEC DO-201AD(DO-27)
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



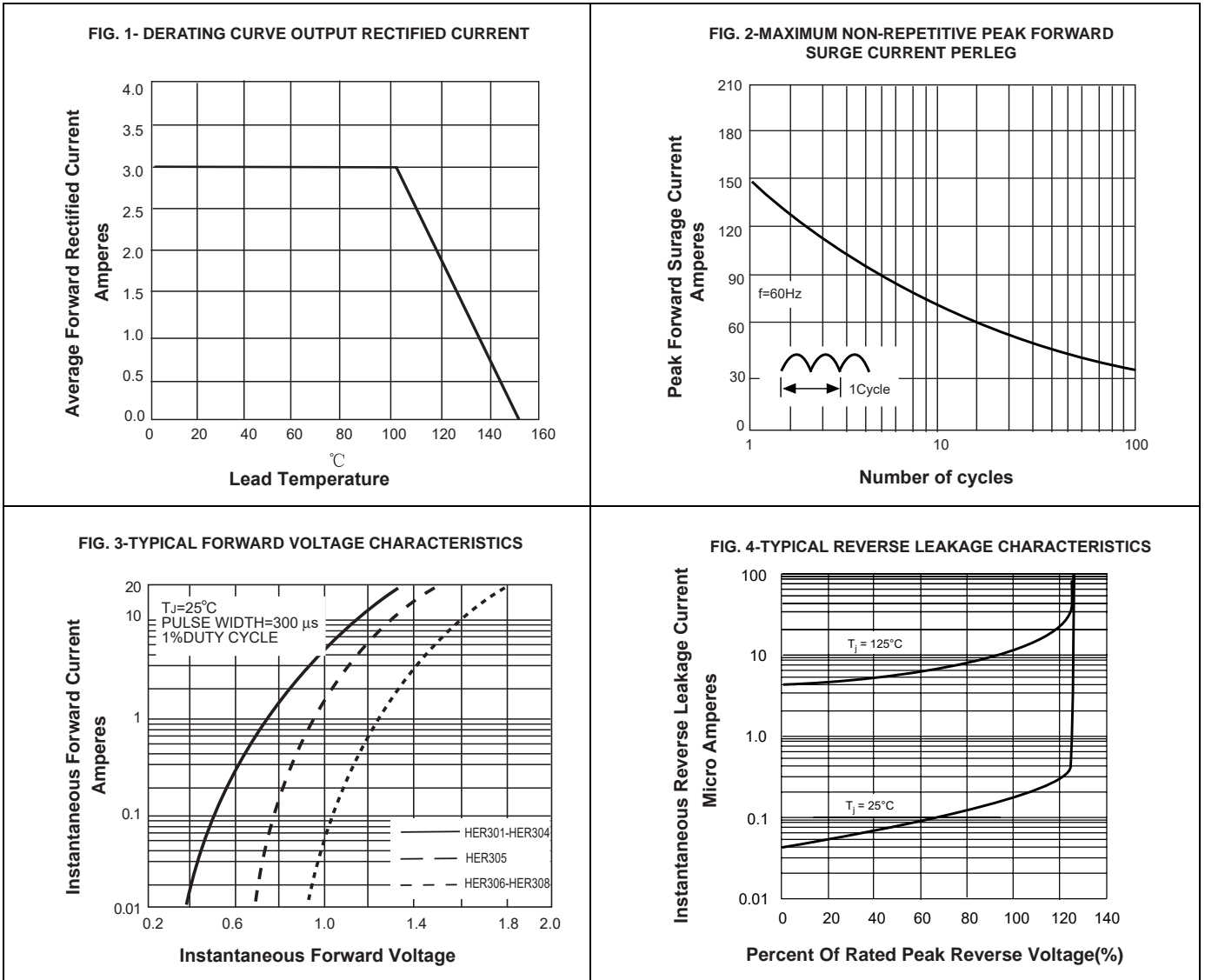
Maximum Ratings And Electrical Characteristics

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%.

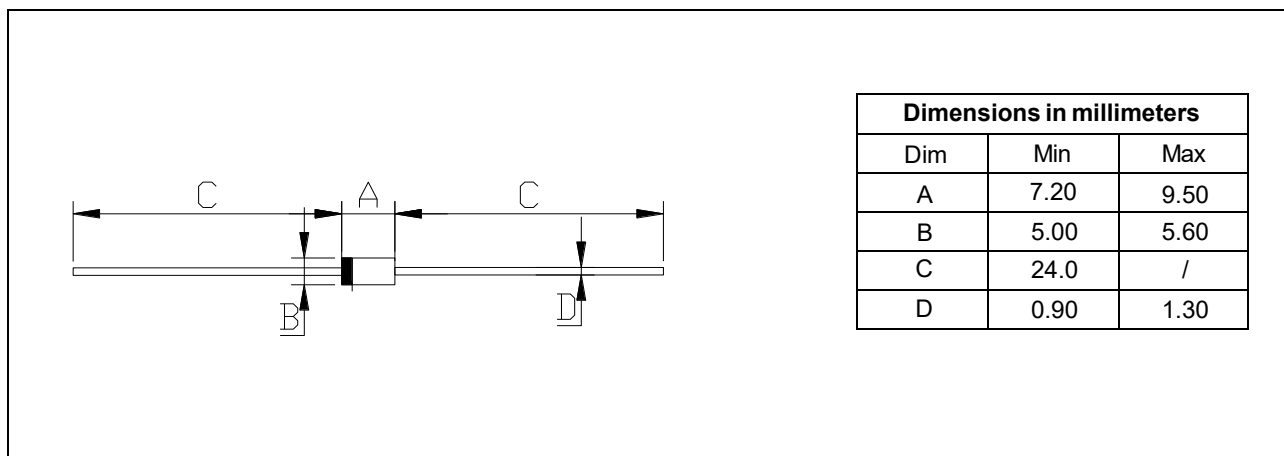
Parameter	Symbols	HER 301	HER 302	HER 303	HER 304	HER 305	HER 306	HER 307	HER 308	Units
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	300	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	210	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	300	400	600	800	1000	V
Maximum average forward rectified current at $T_L=100^{\circ}C$	$I_{(AV)}$	3.0								A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	150.0								A
Maximum instantaneous forward voltage at 1.0A	V_F	1.0				1.4	1.7			V
Maximum DC reverse current $T_A = 25^{\circ}C$ at rated DC blocking voltage $T_A = 125^{\circ}C$	I_R					10.0	500			μA
Maximum reverse recovery time(Note 1)	T_{rr}	50					75			ns
Typical junction capacitance (Note2)	C_J	70.0								pF
Typical thermal resistance	R_{qJA}	45.0								$^{\circ}C/W$
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150								$^{\circ}C$

- Note:** 1.Reverse recovery time test condition: $I_F=0.5A$ $I_R=1.0A$ $I_{rr}=0.25A$
2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

Typical Characteristics ($T_{amb} = 25\text{ }^{\circ}\text{C}$ unless otherwise specified)



Package Dimensions



Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
HER301 thur HER308	DO-201AD(DO-27)	Tape and BOX	1250pcs	EIA STD RS-481

Revision history

Date	Revision	Changes
23-May-2012	1.0	Initial release

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