

Pb Free Plating Product

HER3003PT thru HER3006PT





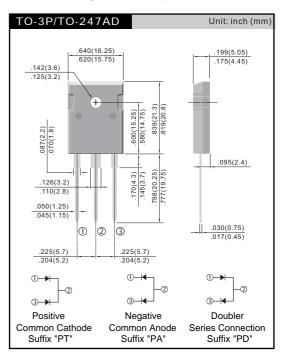
30.0 Ampere Dual Common Cathode High Efficiency Rectifier Diode

Features

- ♦ Dual rectifier construction, positive center-tap
- Plastic package has Underwriters Laboratory Flammability Classification 94V0
- ♦ Glass passivated chip junctions
- Special for inverter/high power motor control
- ♦ Low forward voltage, high current capability
- ♦ Low thermal resistance
- ♦ Low power loss, high efficiency
- High temperature soldering guaranteed:
 260°C, 0.16"(4.06mm)from case for 10 seconds

Mechanical Data

- ♦ Cases: TO-3P/TO-247AD molded plastic
- Terminals: Pure tin plated, lead free solderable per MIL-STD-750. Method 2026
- ♦ Polarity: As marked
- Mounting position: Any
- ♦ Mounting torque: 10in-lbs. Max.
- Weight: 0.2 ounce, 5.6 gram approximately



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

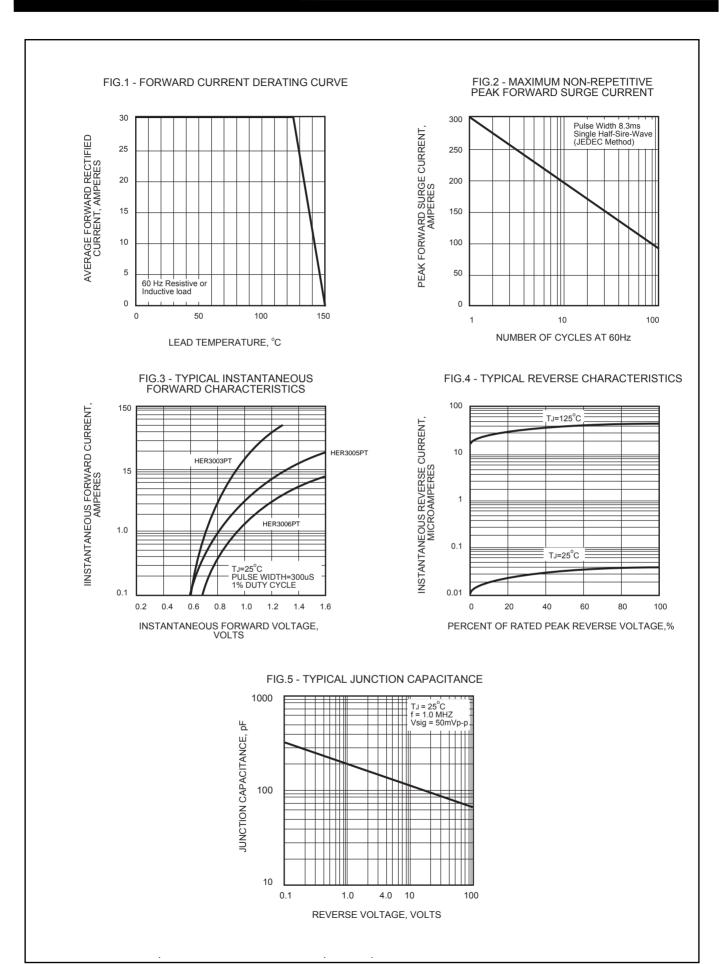
	SYMBOL	HER3003PT HER3003PA HER3003PD	HER3005PT HER3005PA HER3005PD	HER3006PT HER3006PA HER3006PD	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	200	400	600	V
Maximum RMS Voltage	VRMS	140	280	420	V
Maximum DC Blocking Voltage	VDC	200	400	600	V
Maximum Average Forward Rectified Current Tc=125°C	IF(AV)	30.0			А
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method)	lfsm	300			А
Maximum Instantaneous Forward Voltage @ 15.0 A	VF	0.98	1.3	1.7	V
Maximum DC Reverse Current @TJ=25°C At Rated DC Blocking Voltage @TJ=125°C	lR	10 500			uA uA
Maximum Reverse Recovery Time (Note 1)	Trr	50		60	nS
Typical junction Capacitance (Note 2)	CJ	175 145		145	pF
Operating Junction and Storage Temperature Range	TJ, TSTG	-55 to +150			°C

NOTES: (1) Reverse recovery test conditions IF = 0.5A IR = 1.0A Irr = 0.25A.

- (2) Thermal Resistance junction to terminal.
- (3) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts DC.

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