



## ER504A THRU ER606H

SUPER FAST RECTIFIERS

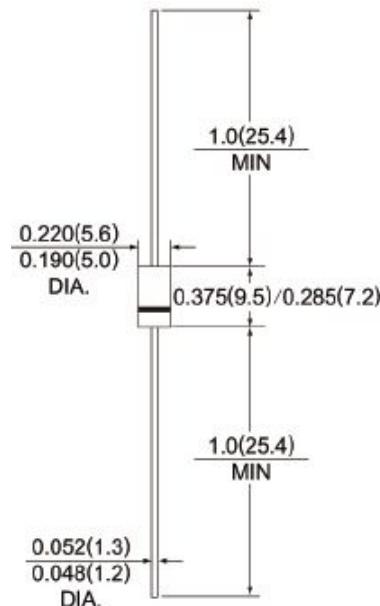
Reverse Voltage 400 to 600 Volts

Forward Current 5.0-6.0 Ampere

### Features:

1. Super fast switching time for high efficiency
2. Low forward voltage drop and high current capability
3. Low reverse leakage current
4. Plastic material has UL flammability classification 94V-0

### DO-201AD/ DO-27



### Mechanical Data:

1. Case: JEDEC DO-27 molded plastic
2. Polarity: Color band denotes cathode
3. Weight: 0.04 ounces , 1.1 grams
4. Mounting position: Any

### 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%

	Symbols	ER504A	ER506	ER506H	ER604	ER606	ER606H	ER607	Units
Maximum repetitive peak reverse voltage	$V_{RMM}$	400	500	550	400	500	550	600	Volts
Maximum DC blocking voltage	$V_{DC}$	400	500	550	400	500	550	600	Volts
Maximum Average Forward Rectified Current @TA=55 °C	$I_{(AV)}$		5.0			6.0			Amps
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	$I_{FSM}$				150.0				Amps
Maximum forward voltage at 5.0A DC	$V_F$	1.30	1.40	1.45	1.30	1.40	1.45	1.70	Volts
Maximum DC reverse current $T_J=25^\circ\text{C}$ at rated DC blocking voltage $T_J=100^\circ\text{C}$	$I_R$				5.0				$\mu\text{A}$
					100				
Maximum Reverse Recovery Time(Note 1)	$T_{rr}$				35.0				ns
Typical junction capacitance (Note 2)	$C_J$				45.0				pF
Typical thermal resistance (Note 3)	$R_{\theta JA}$				25.0				$^\circ\text{C}/\text{W}$
Operating Temperature Range	$T_J$				-55 to +125				°C
Storage Temperature Range	$T_{STG}$				-55 to +150				°C

### Notes:

- 1.Measured with  $IF=0.5\text{A}, IR=1\text{A}, IRR=0.25\text{A}$ .
- 2.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
- 3.Thermal resistance junction to ambient