ER302D THRU ER303D

DPAK SURFACE MOUNT SUPERFAST RECTIFIER VOLTAGE - 200 to 300 Volts CURRENT - 3.0 Amperes

FEATURES

- For surface mounted applications
- Low profile package
- Built-in strain relief
- Easy pick and place
- Superfast recovery times for high efficiency
- Plastic package has Underwriters Laboratory

Flammability Classification 94V-O

- Glass passivated junction
- High temperature soldering:

260 /10 seconds at terminals

MECHANICAL DATA

Case: D PAK/TO-252AA molded plastic

Terminals: Solder plated, solderable per MIL-STD-

750,

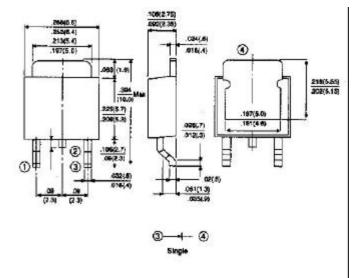
Method 2026

Polarity: Color bank denotes cathode

Standard packaging: 16mm tape (EIA-481)

Weight: 0.015 ounce, 0.4 gram

D PAK/TO-252AA



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ambient temperature unless otherwise specified.

Resistive or inductive load.

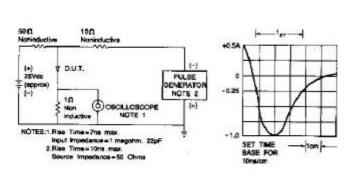
	SYMBOLS	ER302D	ER303D	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	300	Volts
Maximum RMS Voltage	V_{RMS}	140	210	Volts
Maximum DC Blocking Voltage	V_{DC}	200	300	Volts
Maximum Average Forward Rectified Current,	I _(AV)	3.0		Amps
at T _C =75				
Peak Forward Surge Current 8.3ms single half sine-	I _{FSM}	75.0		Amps
Wave superimposed on rated load(JEDEC method)				
Maximum Instantaneous Forward Voltage at 3.0A	V_{F}	0.95	1.25	Volts
(Note 1)				
Maximum DC Reverse Current T _A =25	I_R	5.0		А
At Rated DC Blocking Voltage T _A =100		0.2		mA
Maximum Thermal Resistance (Note 2)	R JC	6.0		/W
	R JA	80.0		
Maximum Reverse Recovery	T_RR	35.0		nS
Storage Temperature Range	T _{STG}	-50 to +150		

NOTES:

- 1. Pulse Test with PW=300 sec, 2% Duty Cycle.
- 2. Mounted on P.C.Board with 14mm² (.013mm thick) copper pad areas.

RATING AND CHARACTERISTIC CURVES

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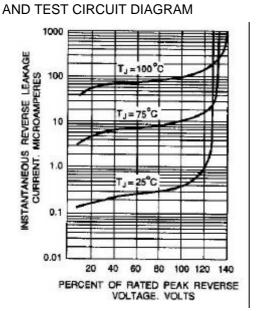


3.0 3.0 3.0 2.0 3.0 125 150 175 200 CASE TEMPERATURE, C

Fig. 1-REVERSE RECOVERY TIME CHARACTERISTIC

Fig. 2-MAXIMUM AVERAGE FORWARD

CURRENT RATING



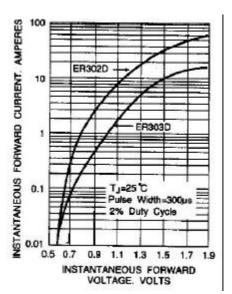
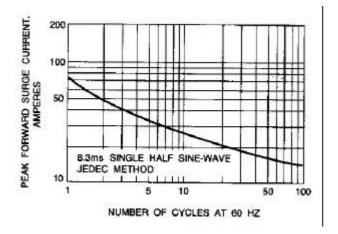


Fig. 3-TYPICAL REVERSE CHARACTERISTICS Fig. 4-TYPICAL FORWARD CAPACITANCE



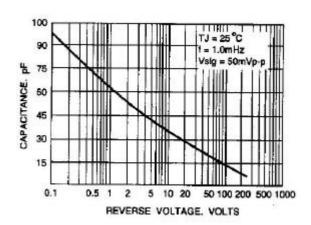


Fig. 5-MAXIMUM NON-REPETITIVE SURGE CURRENT Fig. 6-TYPICAL JUNCTION CAPACITANCE