

Surface Mount Super Fast Recovery Rectifiers

VRRM

300~400V

İF

3 A

Features

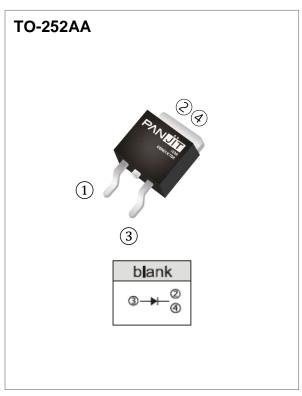
- Superfast recovery times-epitaxial.
- Low forward voltage, high current capability.
- Hermetically sealed.
- Low leakage.
- High surge capability.
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

• Case: TO-252AA molded plastic

• Terminals: Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 0.3217 grams



Maximum Ratings and Thermal Characteristics (Tc = 25 °C unless otherwise specified)

PARAMETER		SYMBOL	ED303D	ED304D	UNITS
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	300	400	V
Maximum RMS voltage		V _{RMS}	210	280	V
Maximum DC Blocking Voltage		V _{DC}	300	400	V
Maximum Average Forward Rectified Current		I _{F(AV)}	3		А
Peak Forward Surge Current tp = 8.3 ms, single half sine-wave		IFSM	75		А
Maximum Forward voltage at 3A per diode (Note 1)		VF	1.25		V
Maximum DC Reverse Current	T _J =25 °C			1	
At Rated DC Blocking Voltage	T _J =125 °C	I _R	300		μА
Maximum Reverse Recovery Time (Note 2)		T _{RR}	35		nS
Typical Thermal Resistance		R _{ÐJA} R _{ÐJL} R _{ÐJC}	8	25 8 10	
Operating Junction and Storage Temperature Range		Тѕтс	-55~150		°C

NOTES:

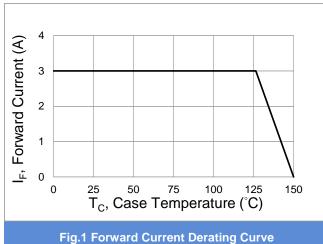
- 1. Pulse Test with PW=300 µsec, 2% Duty Cycle.
- 2. Reverse Recovery Tset Conditions:I_F=0.5A,I_R=1A,I_{rr}=0.25A



CONDUCTOR

ED303D~ED304D

TYPICAL CHARACTERISTIC CURVES



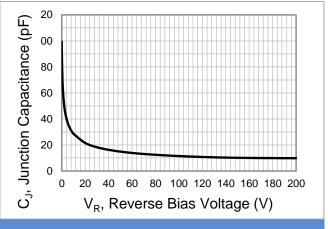


Fig.2 Typical Junction Capacitance

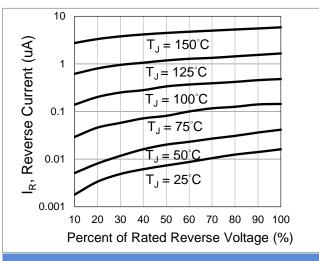


Fig.3 Typical Reverse Characteristics

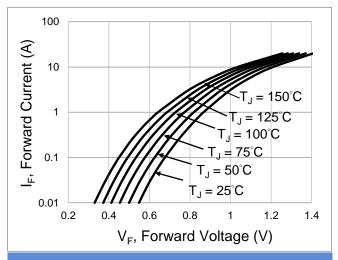


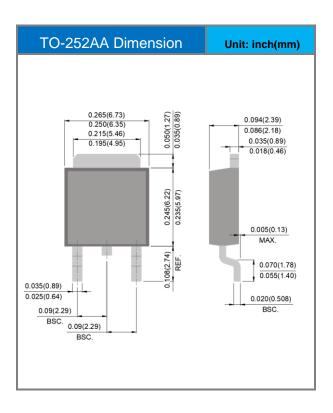
Fig.4 Typical Forward Characteristics

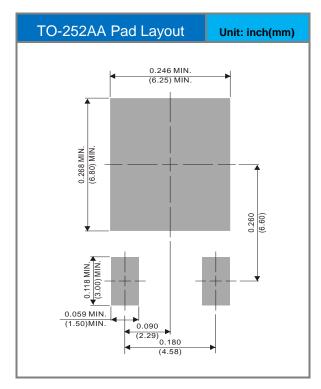


Product and Packing Information

Part No.	Package Type	Packing Type	Marking	
ED303D	TO-252AA	3,000 pcs / 13" reel	ED303D	
ED304D	TO-252AA	3,000 pcs / 13" reel	ED304D	

Packaging Information & Mounting Pad Layout







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