

ER300~ER308

GLASS PASSIVATED SUPERFAST RECOVERY RECTIFIERS

VOLTAGE 50 to 800 Volt **CURRENT** 3 Ampere

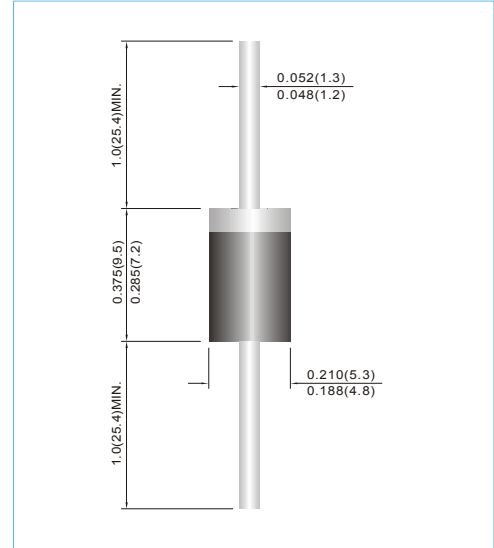
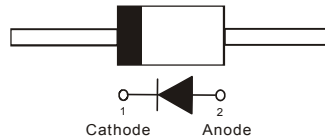
DO-201AD Unit : inch(mm)

FEATURES

- Superfast recovery times-epitaxial construction.
- Low forward voltage, high current capability.
- Hermetically sealed.
- Low leakage.
- High surge capability.
- Plastic package has Underwriters Laboratories Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- Lead free in compliance with EU RoHS 2.0

MECHANICAL DATA

- Case: Molded plastic, DO-201AD
- Terminals: Axial leads, solderable to MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.04 ounce, 1.122 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Resistive or inductive load, 60Hz.

PARAMETER	SYMBOL	ER300	ER301	ER301A	ER302	ER303	ER304	ER306	ER306A	ER308	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	600	700	800	V
Maximum RMS Voltage	V _{RMS}	35	70	105	140	210	280	420	490	560	V
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600	700	800	V
Maximum Average Forward Current 0.375"(9.5mm) lead length at T _A =55°C	I _{F(AV)}	3									A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	125									A
Maximum Forward Voltage at 3A DC	V _F	0.95				1.25		1.7	2	2.5	V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _J =25°C T _J =125°C	I _R	1 300									μA
Maximum Reverse Recovery Time (Note 1)	t _{rr}	35									ns
Typical Junction Capacitance (Note 2)	C _J	35									pF
Typical Junction Resistance (Note 3)	R _{θJA}	20									°C / W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150									°C

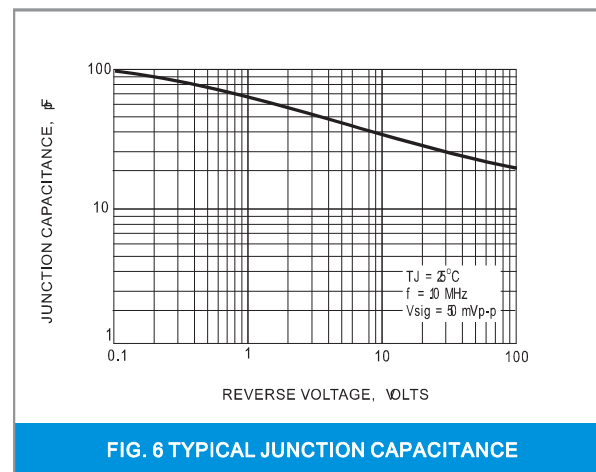
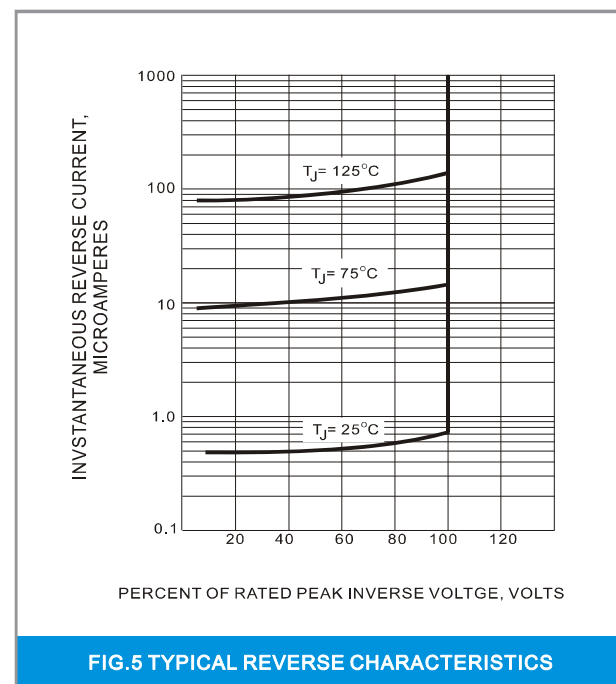
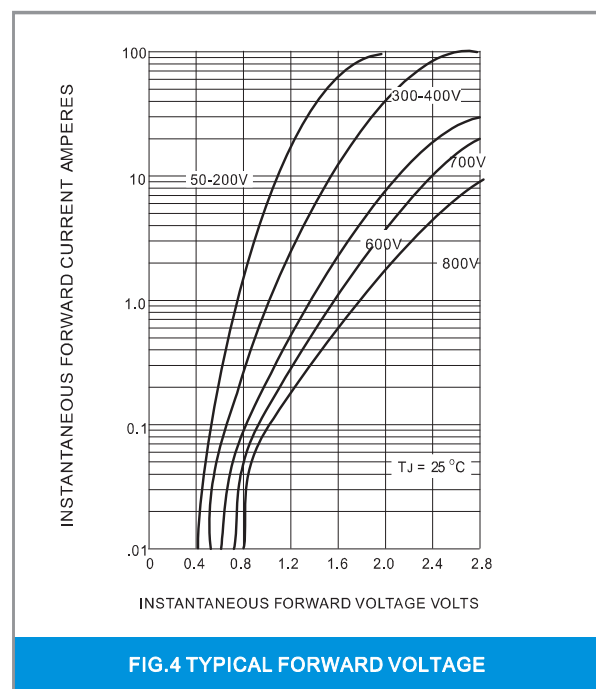
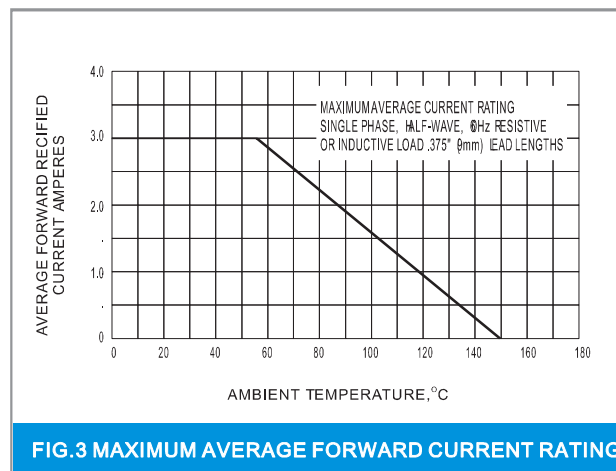
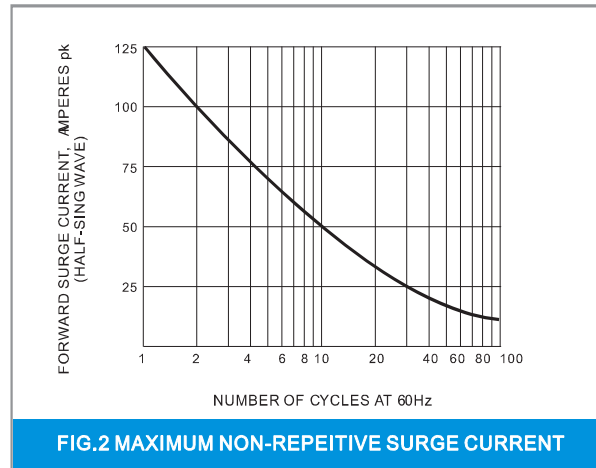
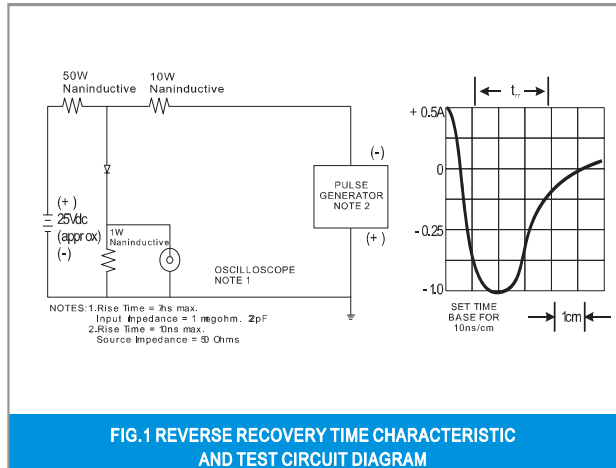
NOTES:1. Reverse Recovery Test Conditions: $I_F=0.5A$, $I_R=-1A$, $I_{rr}=-0.25A$

2. Measured at 1 MHz and applied reverse voltage of 4 VDC

3. Thermal resistance from junction to ambient and from junction to lead length 0.375"(9.5mm) P.C.B. mounted

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RATING AND CHARACTERISTIC CURVES



ER300~ER308

Part No_packing code_Version

ER300_AY_00001

ER300_AY_10001

ER300_B0_00001

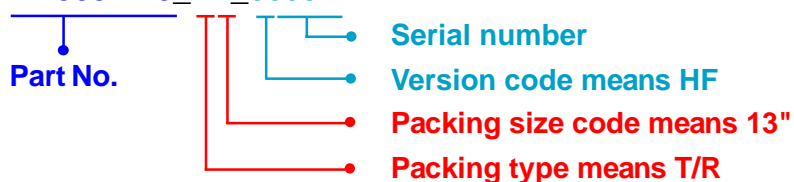
ER300_B0_10001

ER300_R2_00001

ER300_R2_10001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



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Mouser Electronics

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<u>ER302_AY_00001</u>	<u>ER302_AY_000A7</u>	<u>ER302_AY_10001</u>	<u>ER302_AY_100A7</u>	<u>ER302_B0_00001</u>	<u>ER302_B0_10001</u>
<u>ER302_F0_100A8</u>	<u>ER302_F0_100A9</u>	<u>ER302_R2_00001</u>	<u>ER302_R2_10001</u>	<u>ER302_F0_100A2</u>	<u>ER302_F0_100A3</u>
<u>ER302_F0_100A4</u>	<u>ER302_F0_100A5</u>	<u>ER302_F0_100A6</u>	<u>ER302_F0_100A7</u>	<u>ER302_F0_000A1</u>	<u>ER302_F0_000A2</u>
<u>ER302_F0_000A3</u>	<u>ER302_F0_000A4</u>	<u>ER302_F0_000A5</u>	<u>ER302_F0_100A1</u>		