

Damper diode
fast, high-voltage

BY329-1500
BY329-1500S

STATIC CHARACTERISTICS

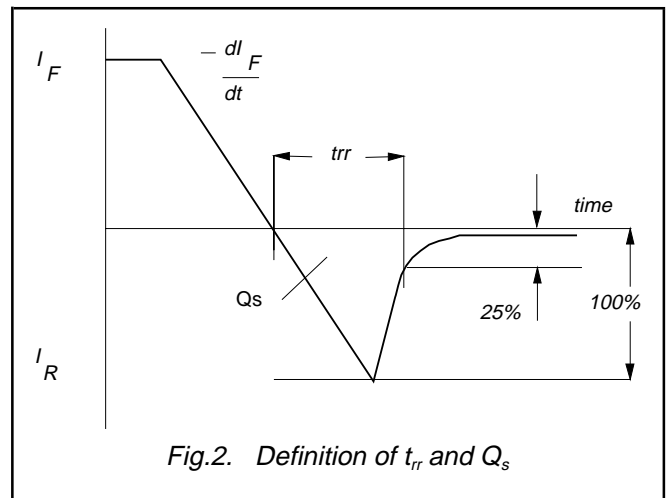
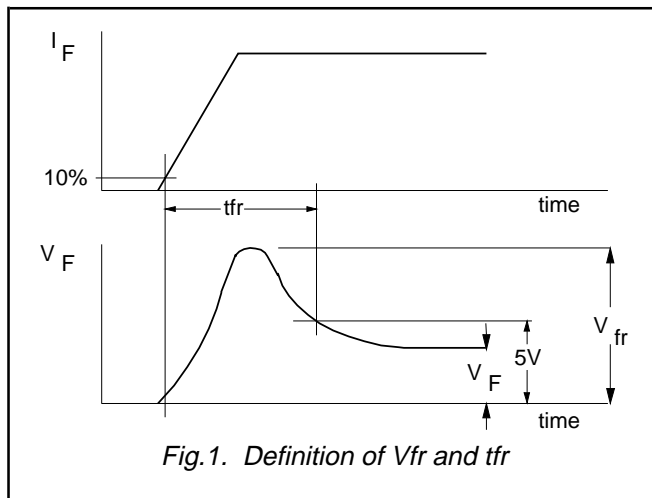
$T_j = 25\text{ }^\circ\text{C}$ unless otherwise stated

SYMBOL	PARAMETER	CONDITIONS	TYP.		MAX.		UNIT
			1500	1500S	1500	1500S	
V_F	Forward voltage	$I_F = 6.5\text{ A}$	1.1	1.3	1.45	1.6	V
I_R	Reverse current	$I_F = 6.5\text{ A}; T_j = 125\text{ }^\circ\text{C}$	1.05	1.2	1.35	1.5	V
		$V_R = 1300\text{ V}$	-	250	-	250	μA
		$V_R = 1300\text{ V}; T_j = 125\text{ }^\circ\text{C}$	-	1	-	1	mA

DYNAMIC CHARACTERISTICS

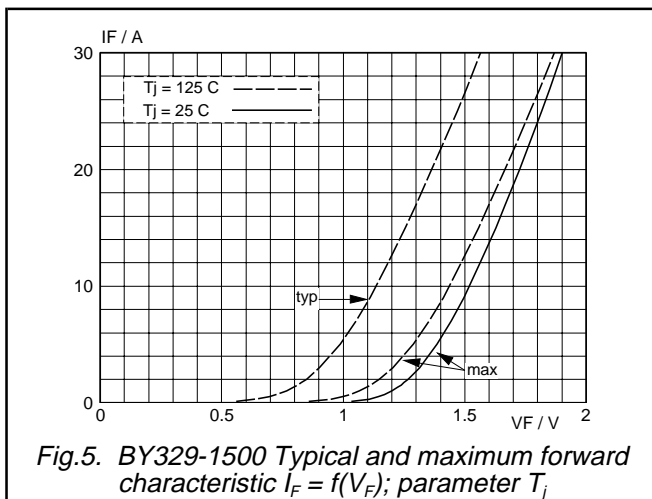
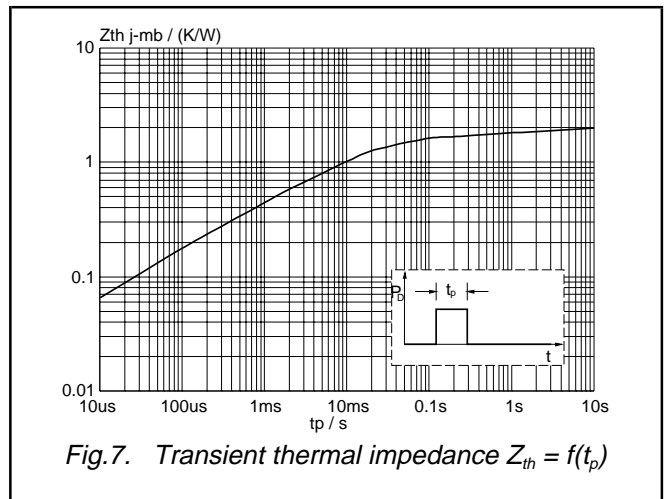
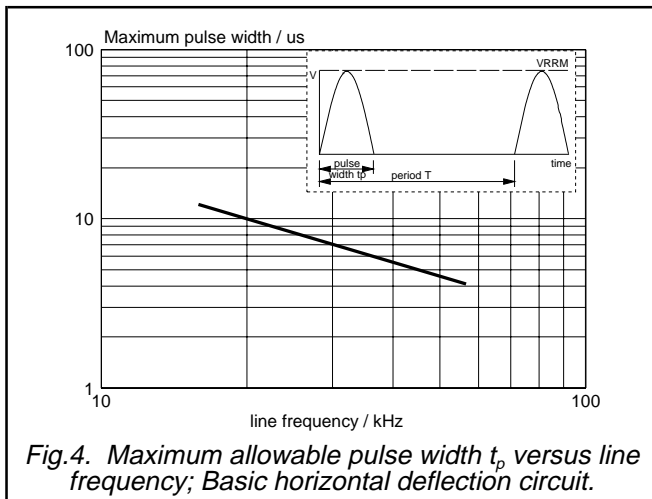
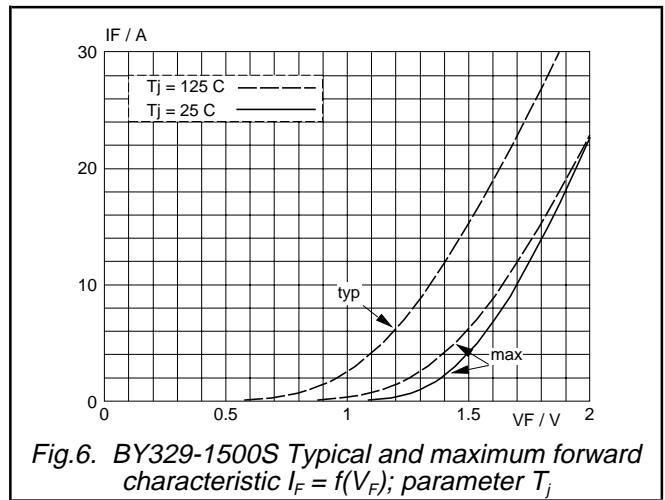
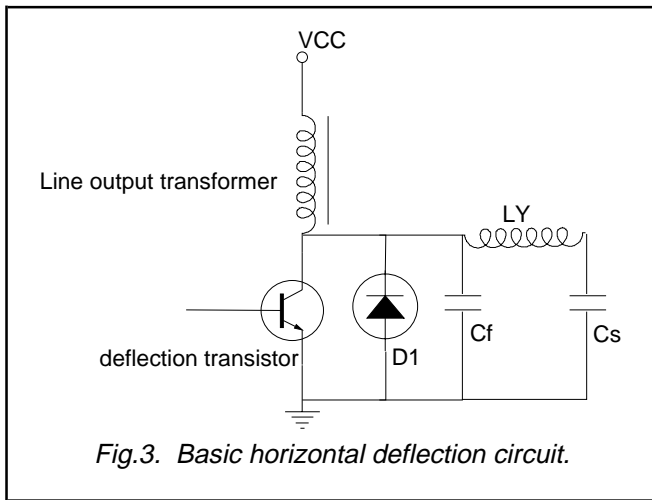
$T_j = 25\text{ }^\circ\text{C}$ unless otherwise stated

SYMBOL	PARAMETER	CONDITIONS	TYP.		MAX.		UNIT
			1500	1500S	1500	1500S	
t_{rr}	Reverse recovery time	$I_F = 1\text{ A}; V_R \geq 30\text{ V};$ $di_F/dt = 50\text{ A}/\mu\text{s}$	0.18	0.13	0.23	0.16	μs
Q_s	Reverse recovery charge	$I_F = 2\text{ A}; -di_F/dt = 20\text{ A}/\mu\text{s}$	1.6	0.7	2.0	0.95	μC
V_{fr}	Peak forward recovery voltage	$I_F = 6.5\text{ A}; di_F/dt = 50\text{ A}/\mu\text{s}$	17	23	30	40	V
t_{fr}	Forward recovery time	$I_F = 6.5\text{ A}; di_F/dt = 50\text{ A}/\mu\text{s}$	210	220	300	320	ns



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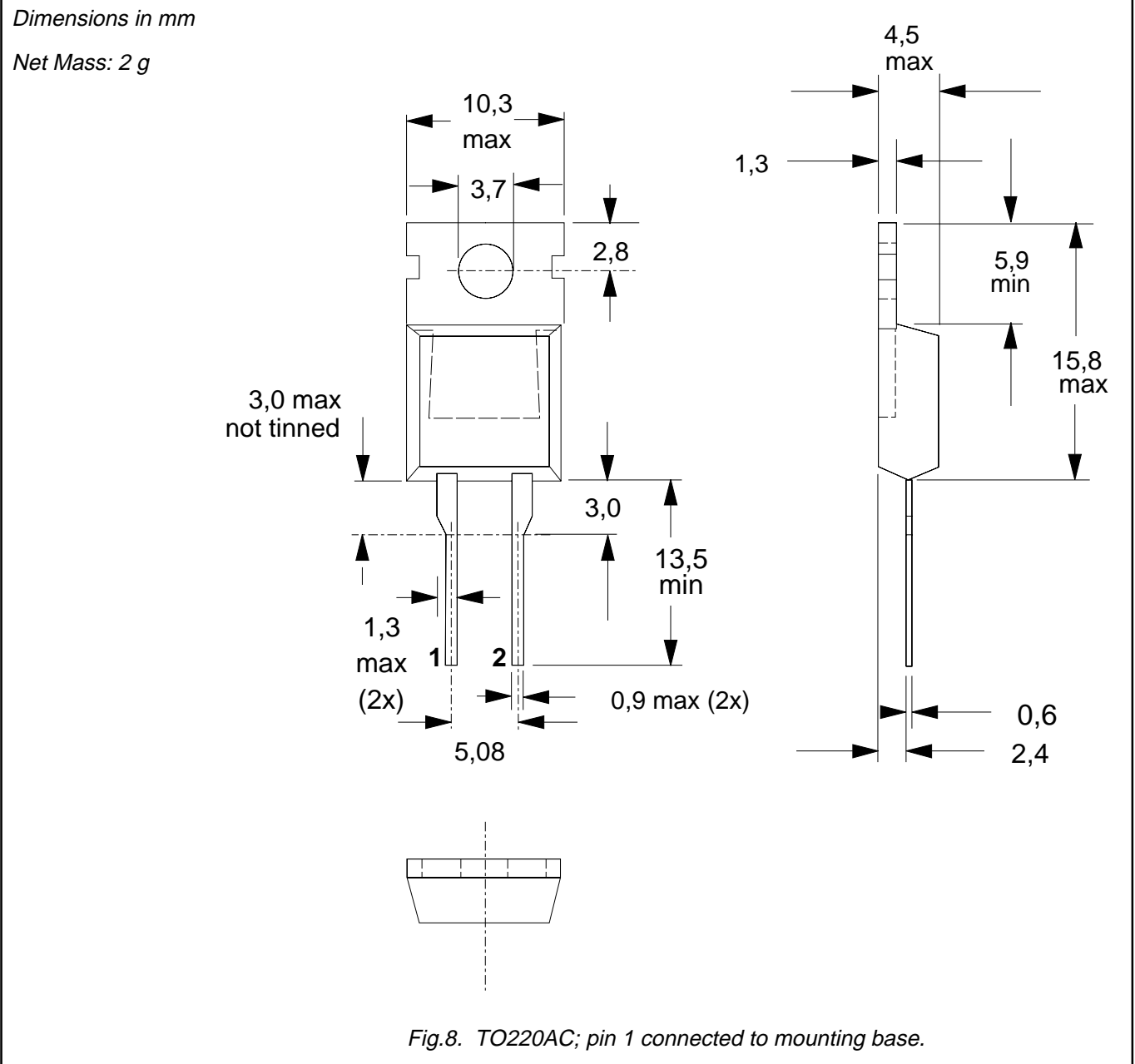
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MECHANICAL DATA



Notes

1. Refer to mounting instructions for TO220 envelopes.
2. Epoxy meets UL94 V0 at 1/8".

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DEFINITIONS

Data sheet status	
Objective specification	This data sheet contains target or goal specifications for product development.
Preliminary specification	This data sheet contains preliminary data; supplementary data may be published later.
Product specification	This data sheet contains final product specifications.
Limiting values	
Limiting values are given in accordance with the Absolute Maximum Rating System (IEC 134). Stress above one or more of the limiting values may cause permanent damage to the device. These are stress ratings only and operation of the device at these or at any other conditions above those given in the Characteristics sections of this specification is not implied. Exposure to limiting values for extended periods may affect device reliability.	
Application information	
Where application information is given, it is advisory and does not form part of the specification.	
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LIFE SUPPORT APPLICATIONS

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