

Silicon Diode

BY359F-1500S

1500V/7A

DATASHEET

OEM – Philips

Source: Philips Databook 1999

Damper diode
fast, high-voltage

BY359F-1500, BY359F-1500S

STATIC CHARACTERISTICS

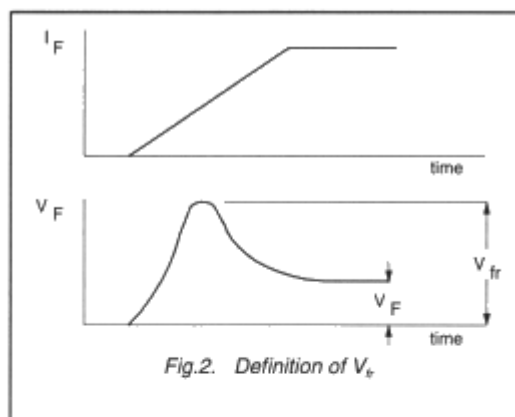
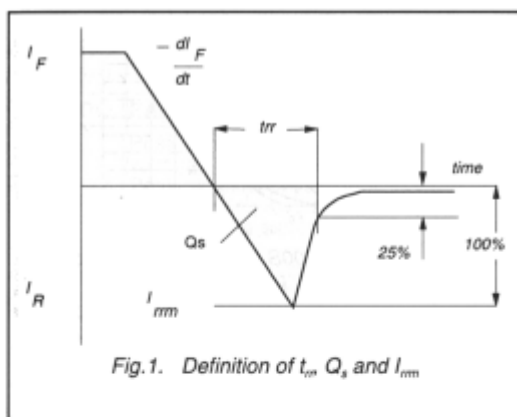
$T_J = 25\text{ }^{\circ}\text{C}$ unless otherwise stated

SYMBOL	PARAMETER	CONDITIONS	BY359F-1500		BY359F-1500S		UNIT
			TYP.	MAX.	TYP.	MAX.	
V_F	Forward voltage	$I_F = 20\text{ A}$ $I_F = 10\text{ A}; T_J = 150\text{ }^{\circ}\text{C}$	1.3 1.00	1.8 1.5	1.5 1.25	2.0 1.75	V V
I_R	Reverse current	$V_R = 1300\text{ V}$ $V_R = 1300\text{ V};$ $T_J = 100\text{ }^{\circ}\text{C}$	10 50	100 300	10 100	100 600	μA μA

DYNAMIC CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	BY359F-1500		BY359F-1500S		UNIT
			TYP.	MAX.	TYP.	MAX.	
t_{rr}	Reverse recovery time	$I_F = 2\text{ A}; V_R \geq 30\text{ V};$ $-di_F/dt = 20\text{ A}/\mu\text{s}$	0.47	0.60	0.28	0.35	μs
Q_s	Reverse recovery charge		1.6	2.0	0.70	0.95	μC
V_{fr}	Peak forward recovery voltage	$I_F = 10\text{ A};$ $di_F/dt = 30\text{ A}/\mu\text{s}$	11.0	-	17.0	-	V



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