

FAST RECOVERY DIODE

Features

- Damper diode for high definition T.V. and high resolution display
- High voltage by mesa design
- High reliability

Applications

- High speed switching

Maximum ratings and characteristics

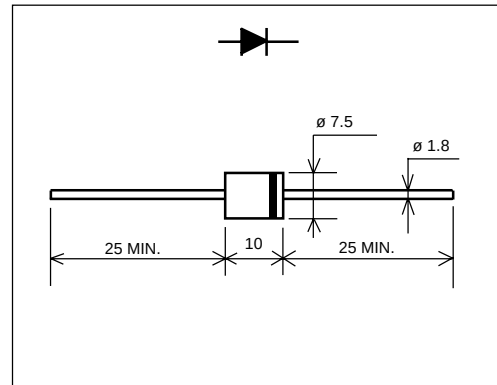
- Absolute maximum ratings

Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}		1500	V
Non-repetitive peak reverse voltage	V_{RSM}		1500	V
Average forward current	$I_{F(AV)}$	Resistive load ($T_J = 120^{\circ}\text{C}$)	3.0	A
Surge current	I_{FSM}	Sine wave 10ms	50	A
Operating junction temperature	T_J		-40 to +150	$^{\circ}\text{C}$
Storage temperature	T_{stg}		-40 to +150	$^{\circ}\text{C}$

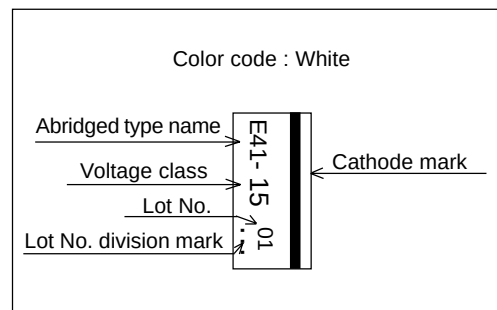
- Electrical characteristics ($T_a = 25^{\circ}\text{C}$ Unless otherwise specified)

Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V_{FM}	$I_{FM} = 4\text{A}$	1.6	V
Reverse current	I_{RRM}	$V_R = V_{RRM}$	10	μA
Reverse recovery time	t_{rr}	$I_F = 0.1\text{A}$, $I_R = 0.1\text{A}$	2.2	μs

Outline drawings, mm

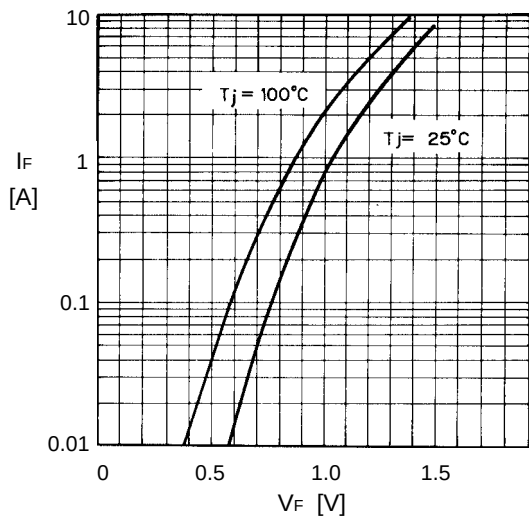


Marking

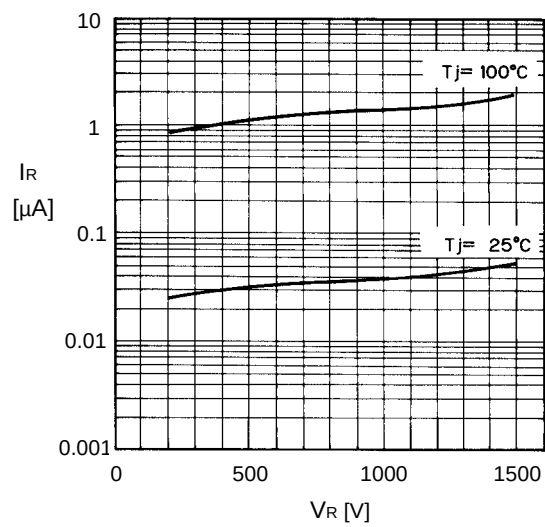
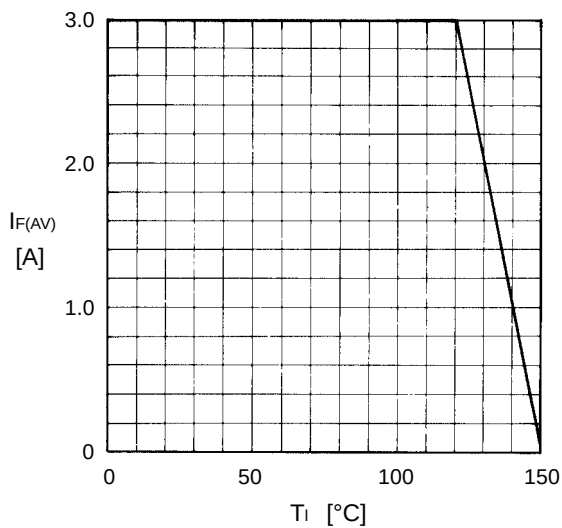


■ Characteristics

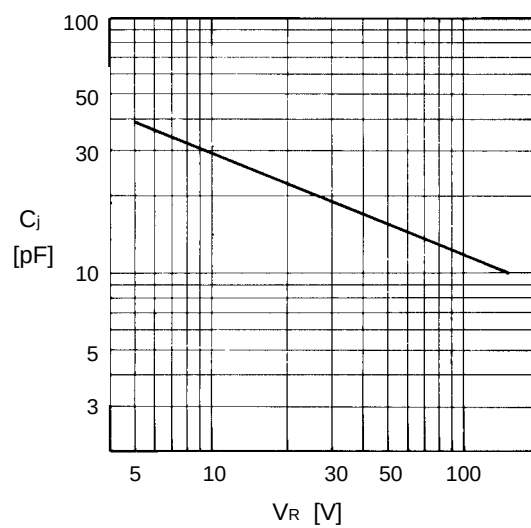
Forward characteristics



Reverse characteristics

Current derating ($I_{F(AV)}-T_i$)

Junction capacitance characteristics



Surge capability

