

BYM26 series

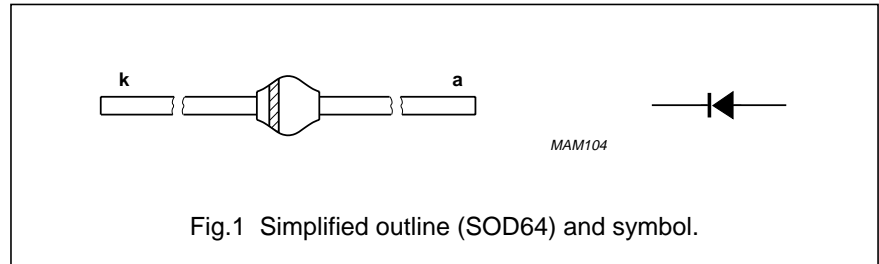
FEATURES

- Glass passivated
- High maximum operating temperature
- Low leakage current
- Excellent stability
- Guaranteed avalanche energy absorption capability
- Available in ammo-pack
- Also available with preformed leads for easy insertion.

DESCRIPTION

Rugged glass SOD64 package, using a high temperature alloyed

construction. This package is hermetically sealed and fatigue free as coefficients of expansion of all used parts are matched.



LIMITING VALUES

In accordance with the Absolute Maximum Rating System (IEC 134).

SYMBOL	PARAMETER	CONDITIONS	MIN.	MAX.	UNIT
V _{RRM}	repetitive peak reverse voltage				
	BYM26A		–	200	V
	BYM26B		–	400	V
	BYM26C		–	600	V
	BYM26D		–	800	V
	BYM26E		–	1000	V
	BYM26F BYM26G		–	1200 1400	V V
V _R	continuous reverse voltage				
	BYM26A		–	200	V
	BYM26B		–	400	V
	BYM26C		–	600	V
	BYM26D		–	800	V
	BYM26E		–	1000	V
	BYM26F BYM26G		–	1200 1400	V V
I _{F(AV)}	average forward current				
	BYM26A to E BYM26F and G	T _{tp} = 55 °C; lead length = 10 mm; see Figs 2 and 3; averaged over any 20 ms period; see also Figs 10 and 11	– –	2.30 2.40	A A
I _{F(AV)}	average forward current				
	BYM26A to E BYM26F and G	T _{amb} = 65 °C; PCB mounting (see Fig.19); see Figs 4 and 5; averaged over any 20 ms period; see also Figs 10 and 11	– –	1.05 1.00	A A



SCHOTTKY BARRIER RECTIFIER

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SYMBOL	PARAMETER	CONDITIONS	MIN.	MAX.	UNIT
I _{FRM}	repetitive peak forward current BYM26A to E BYM26F and G	T _{tp} = 55 °C; see Figs 6 and 7	–	19	A
			–	21	A
I _{FRM}	repetitive peak forward current BYM26A to E BYM26F and G	T _{amb} = 65 °C; see Figs 8 and 9	–	8.0	A
			–	8.5	A
I _{FSM}	non-repetitive peak forward current	t = 10 ms half sine wave; T _j = T _{j max} prior to surge; V _R = V _{RRMmax}	–	45	A
E _{RSM}	non-repetitive peak reverse avalanche energy	L = 120 mH; T _j = T _{j max} prior to surge; inductive load switched off	–	10	mJ
T _{stg}	storage temperature		–65	+175	°C
T _j	junction temperature	see Figs 12 and 13	–65	+175	°C

ELECTRICAL CHARACTERISTICS

T_j = 25 °C unless otherwise specified.

SYMBOL	PARAMETER	CONDITIONS	MIN.	TYP.	MAX.	UNIT
V _F	forward voltage BYM26A to E BYM26F and G	I _F = 2 A; T _j = T _{j max} ; see Figs 14 and 15	–	–	1.34	V
			–	–	1.34	V
V _F	forward voltage BYM26A to E BYM26F and G	I _F = 2 A; see Figs 14 and 15	–	–	2.65	V
			–	–	2.30	V
V _{(BR)R}	reverse avalanche breakdown voltage BYM26A BYM26B BYM26C BYM26D BYM26E BYM26F BYM26G	I _R = 0.1 mA	300	–	–	V
			500	–	–	V
			700	–	–	V
			900	–	–	V
			1100	–	–	V
			1300	–	–	V
			1500	–	–	V
I _R	reverse current	V _R = V _{RRMmax} ; see Fig.16	–	–	10	μA
		V _R = V _{RRMmax} ; T _j = 165 °C; see Fig.16	–	–	150	μA
t _{rr}	reverse recovery time BYM26A to C BYM26D and E BYM26F and G	when switched from I _F = 0.5 A to I _R = 1 A; measured at I _R = 0.25 A; see Fig.20	–	–	30	ns
			–	–	75	ns
			–	–	150	ns

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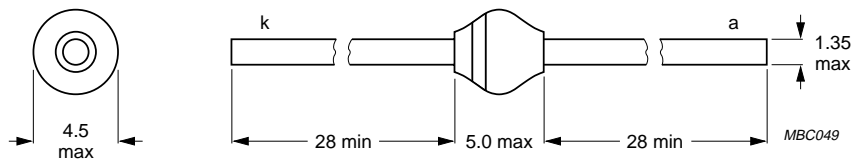
SYMBOL	PARAMETER	CONDITIONS	MIN.	TYP.	MAX.	UNIT
C _d	diode capacitance	f = 1 MHz; V _R = 0 V; see Figs 17 and 18	–	85	–	pF
	BYM26A to C		–	75	–	pF
	BYM26D and E BYM26F and G		–	65	–	pF
$\left \frac{dI_R}{dt} \right $	maximum slope of reverse recovery current	when switched from I _F = 1 A to V _R ≥ 30 V and dI _F /dt = -1 A/μs; see Fig.21	–	–	7	A/μs
	BYM26A to C		–	–	6	A/μs
	BYM26D and E BYM26F and G		–	–	5	A/μs

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
R _{th j-tp}	thermal resistance from junction to tie-point	lead length = 10 mm	25	K/W
R _{th j-a}	thermal resistance from junction to ambient	note 1	75	K/W

Note

1. Device mounted on an epoxy-glass printed-circuit board, 1.5 mm thick; thickness of Cu-layer ≥40 μm, see Fig.19. For more information please refer to the "General Part of associated Handbook".

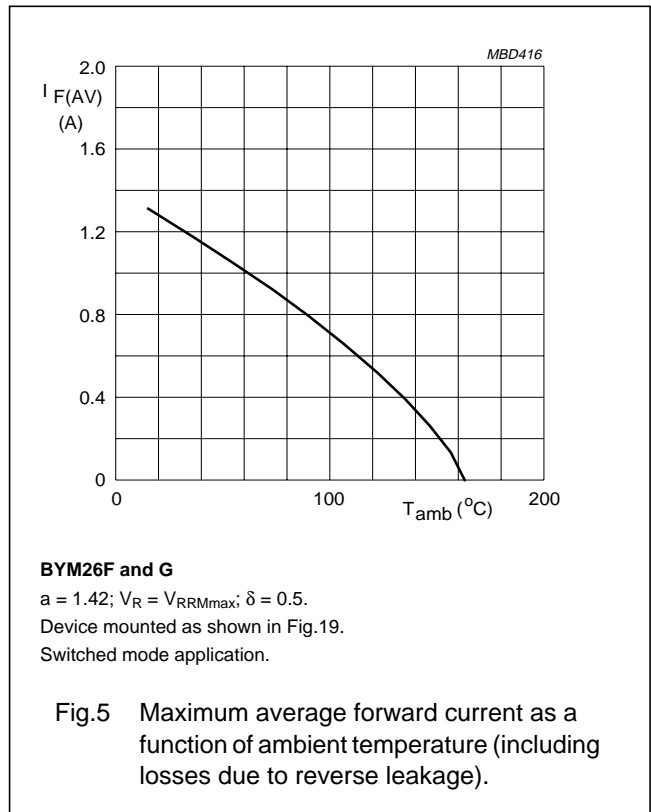
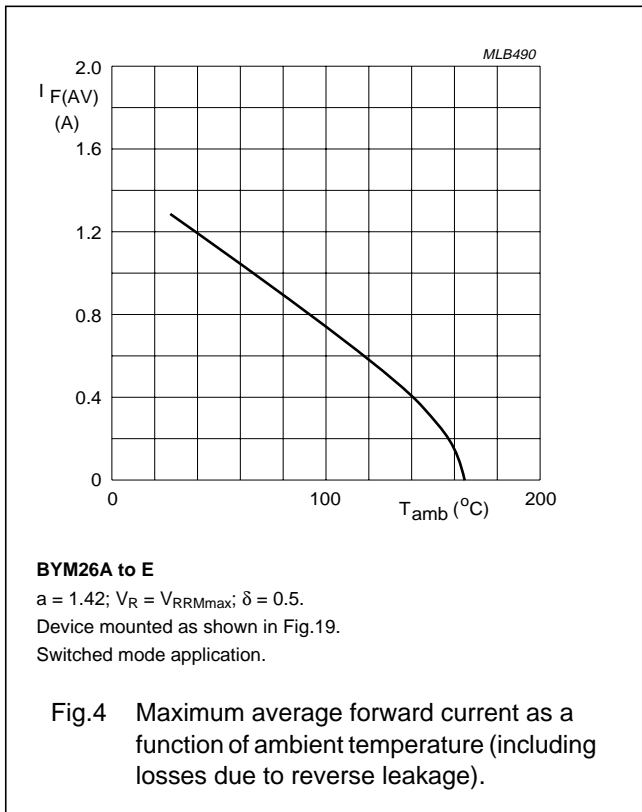
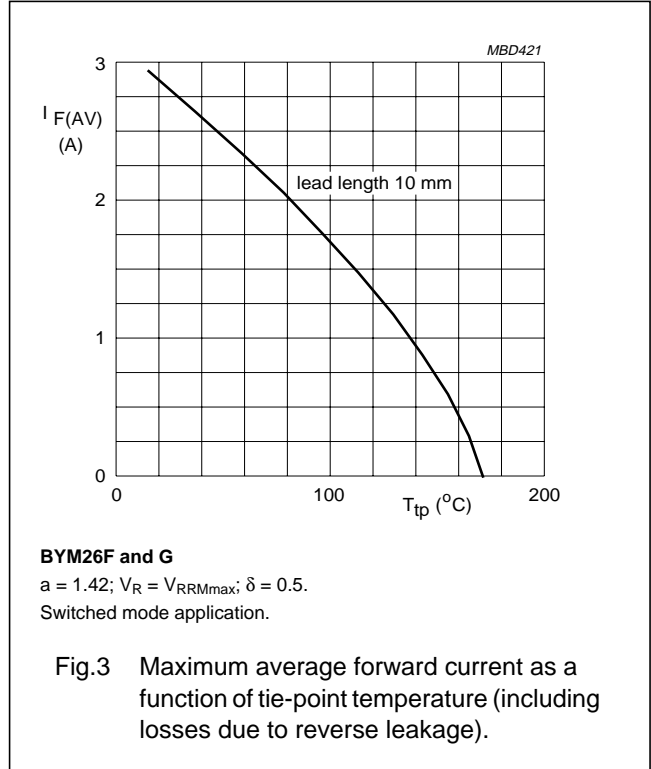
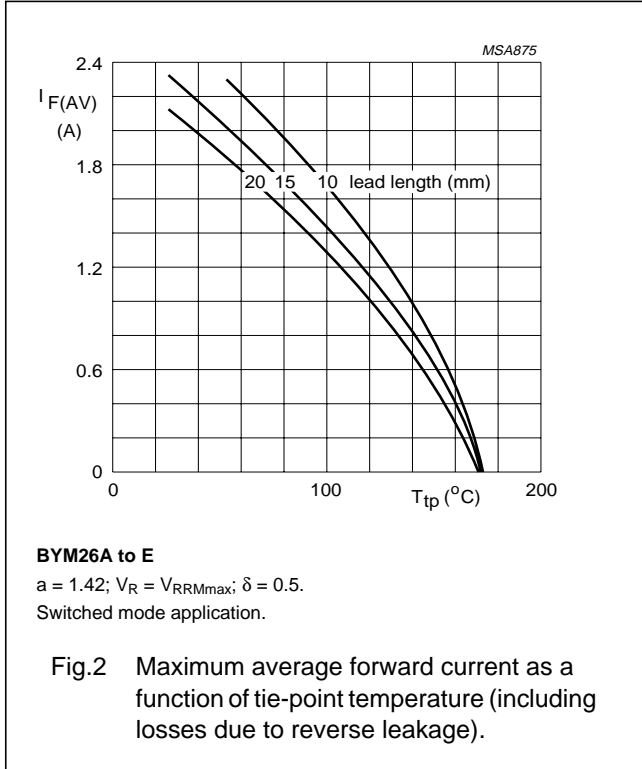


Dimensions in mm.
The marking band indicates the cathode.

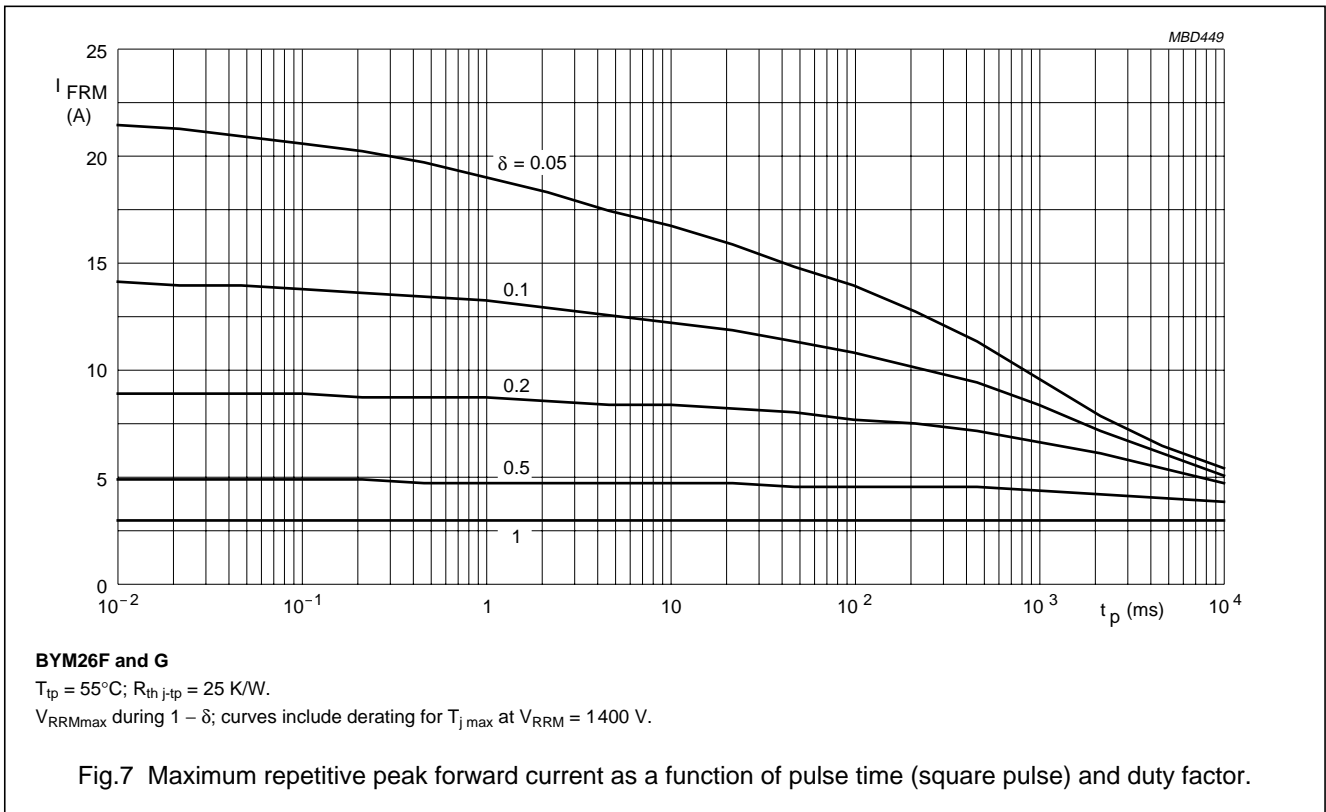
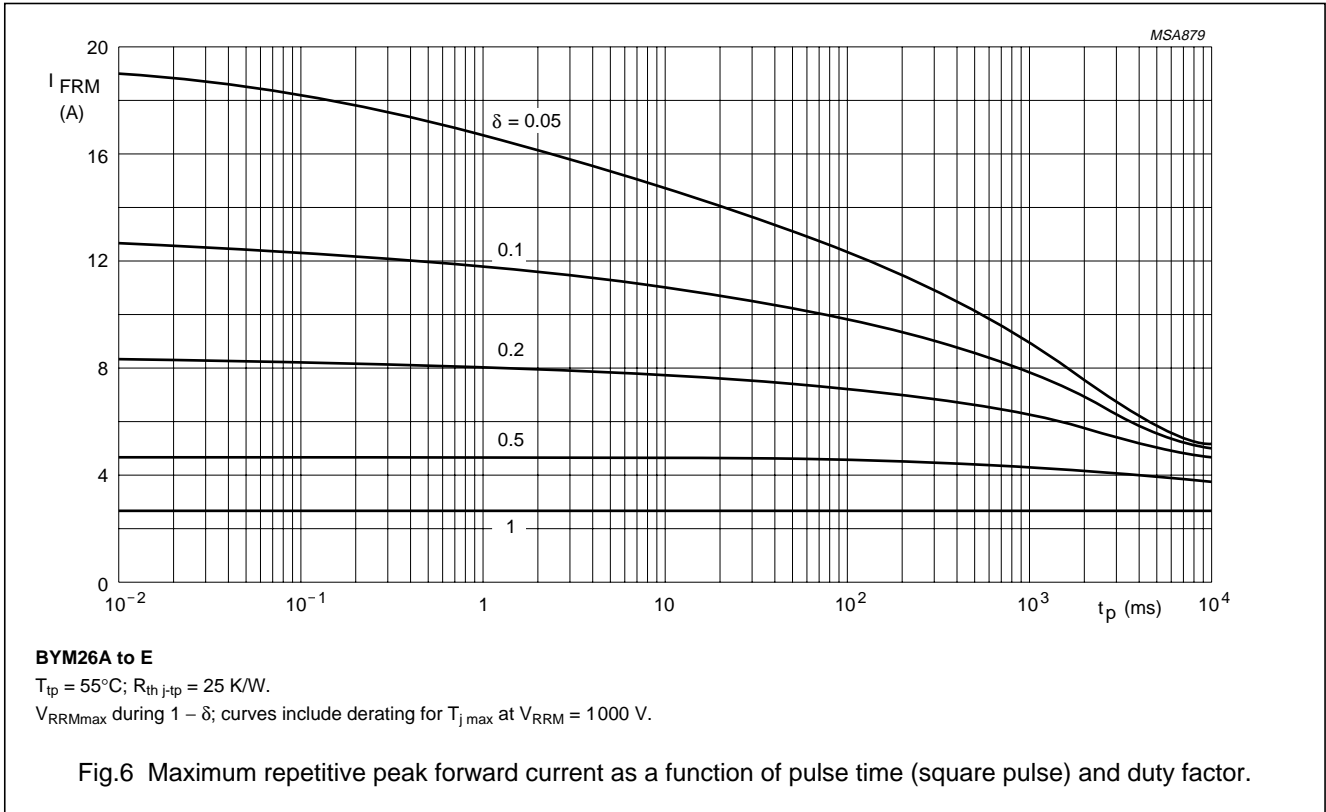
Fig.22 SOD64.

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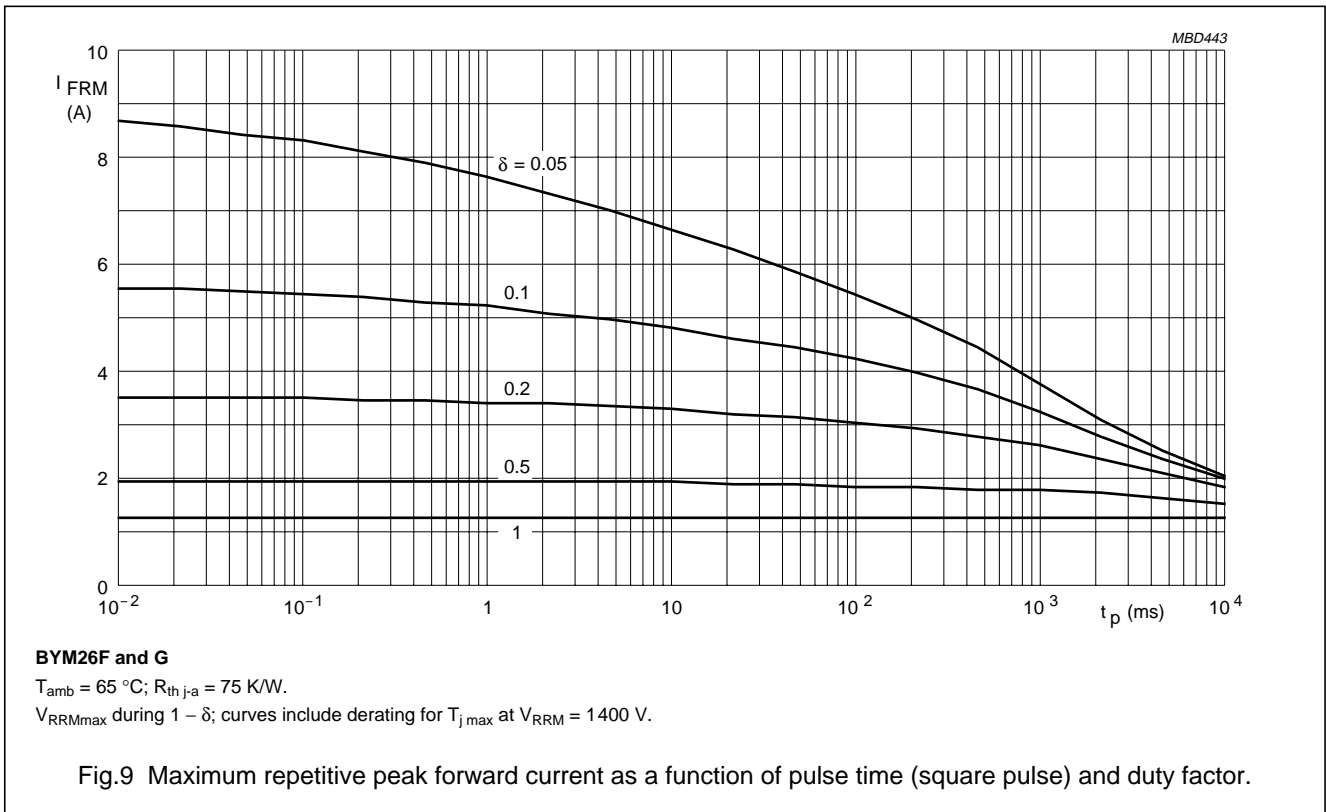
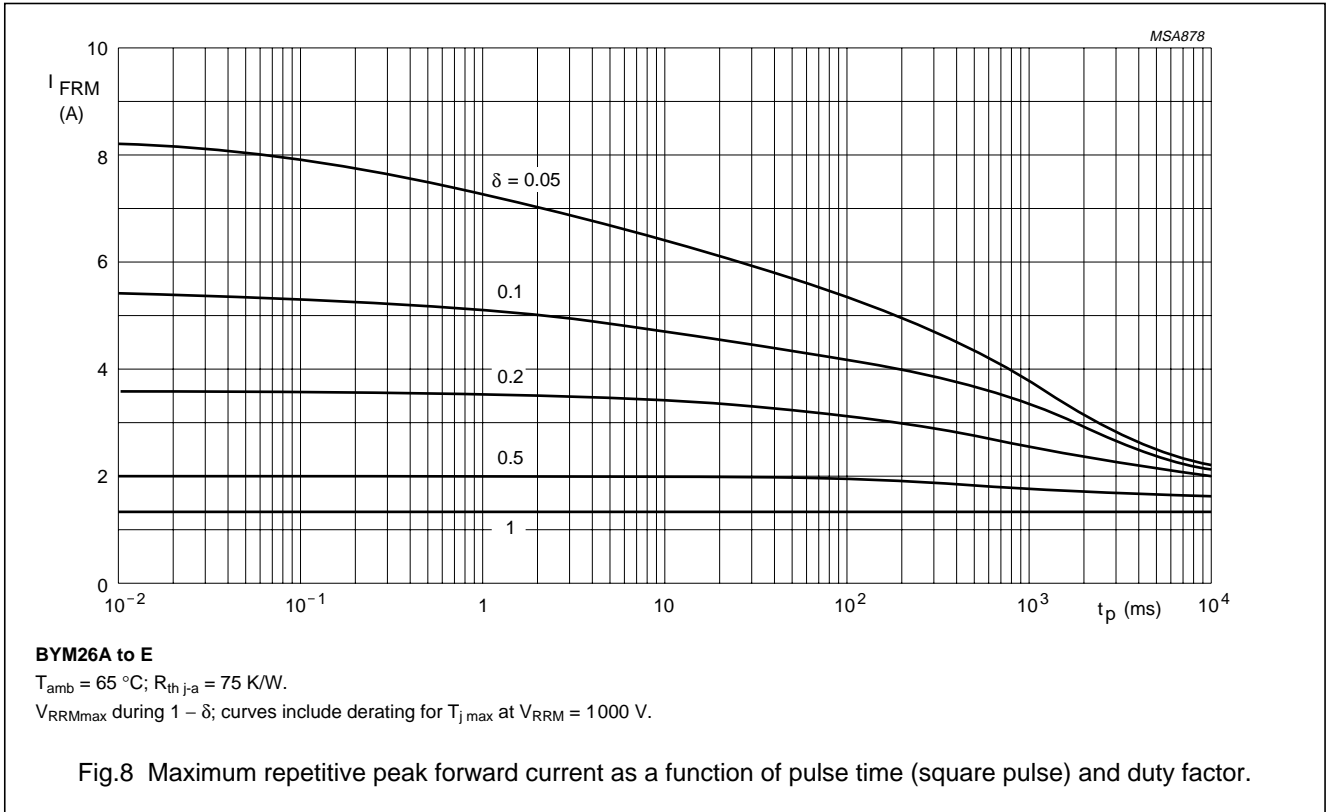
GRAPHICAL DATA



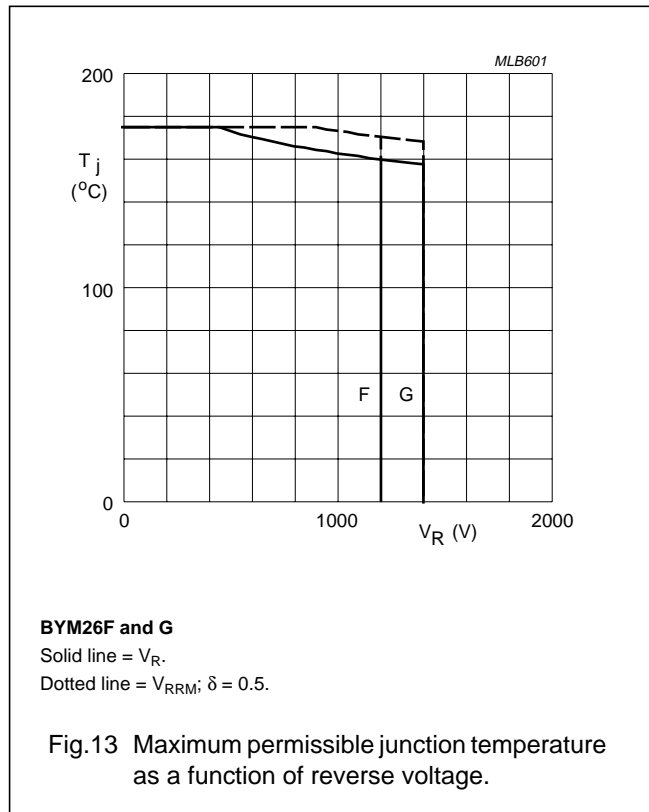
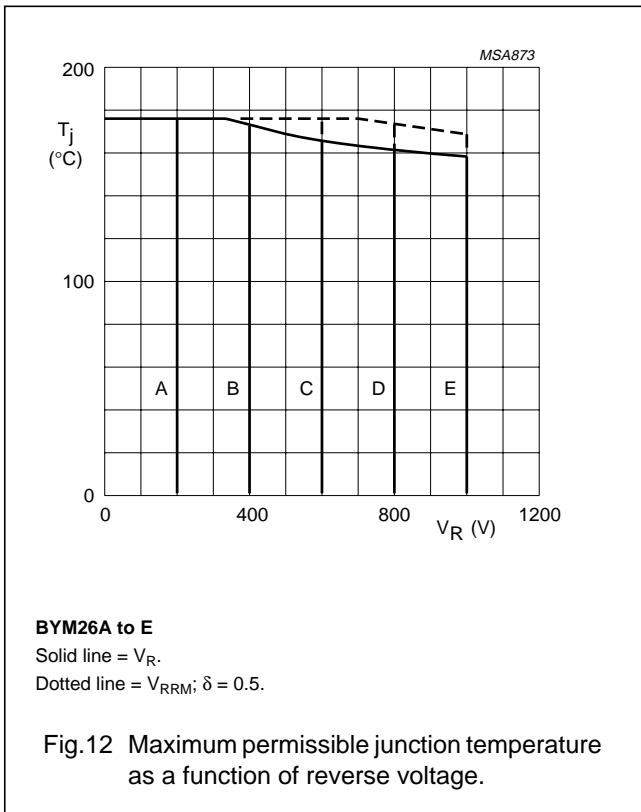
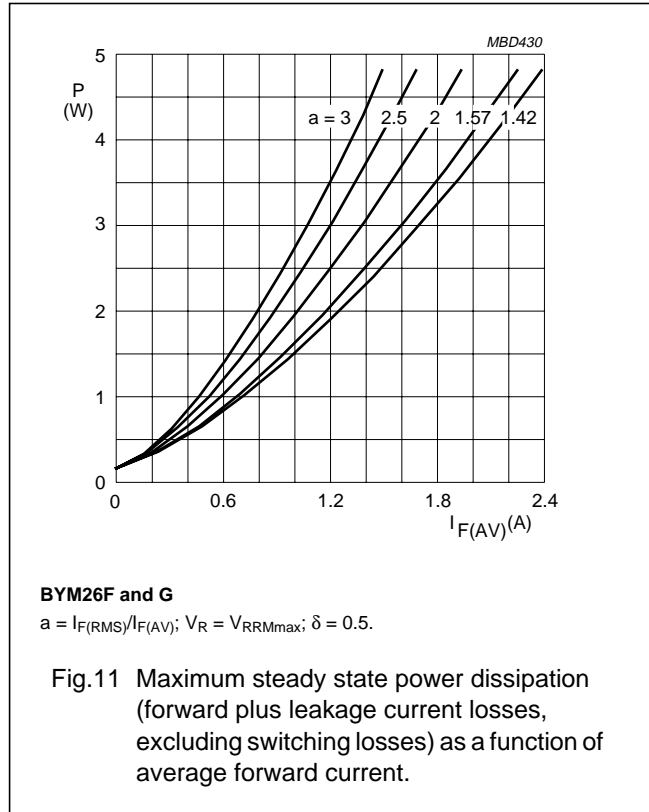
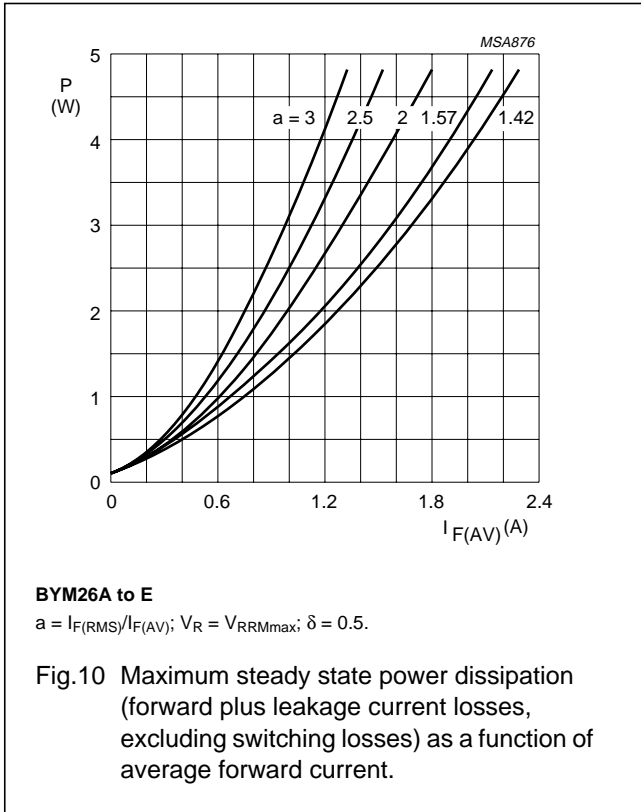
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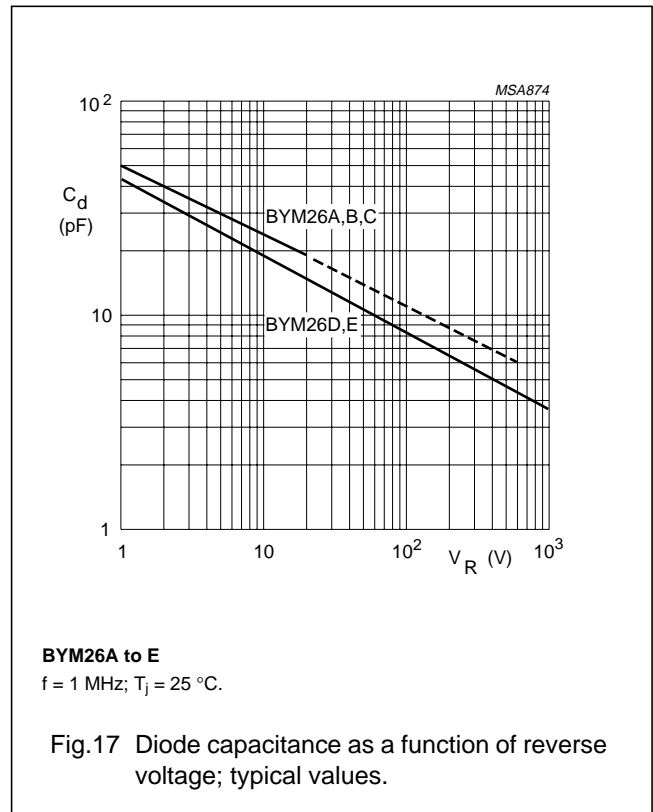
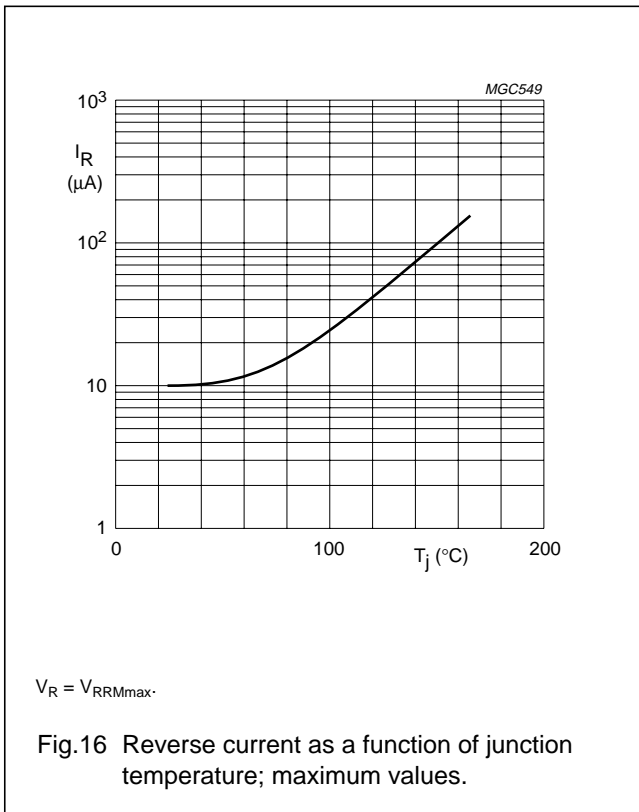
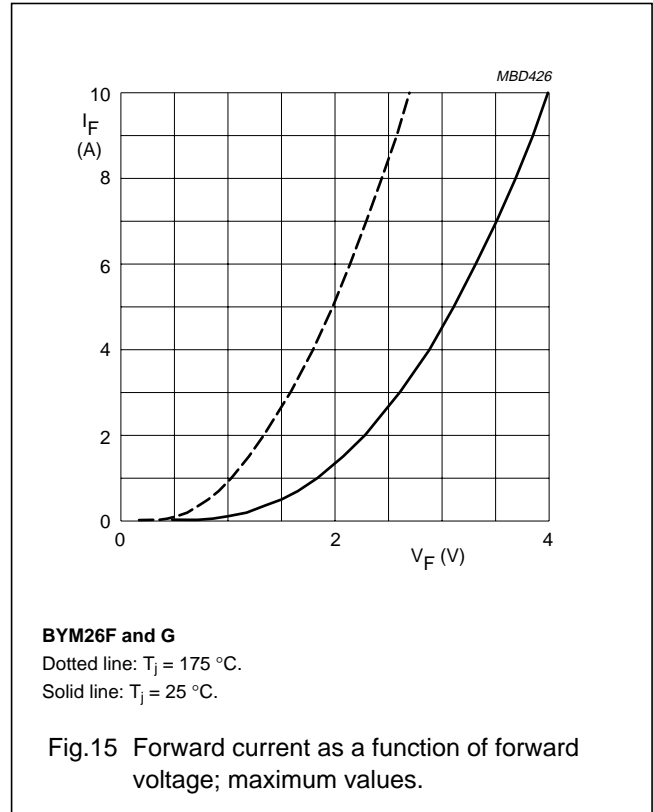
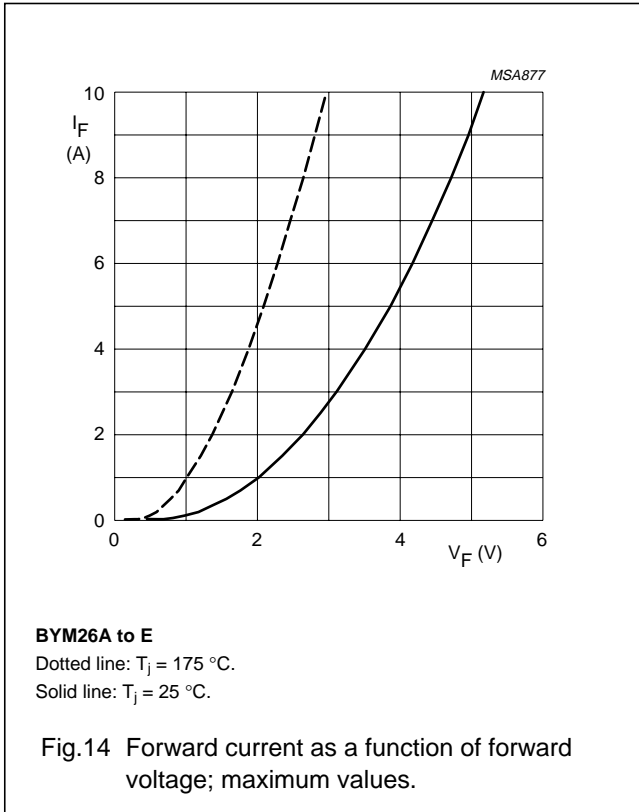
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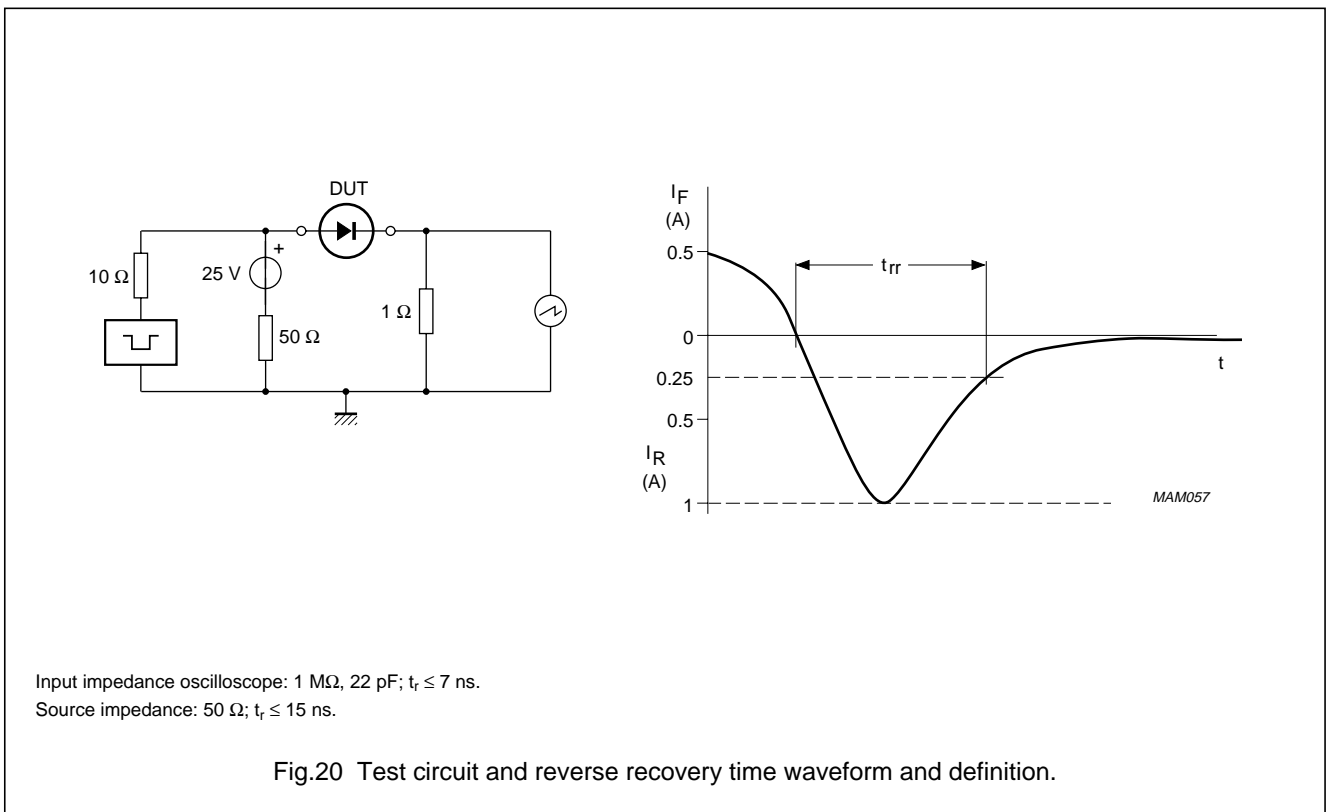
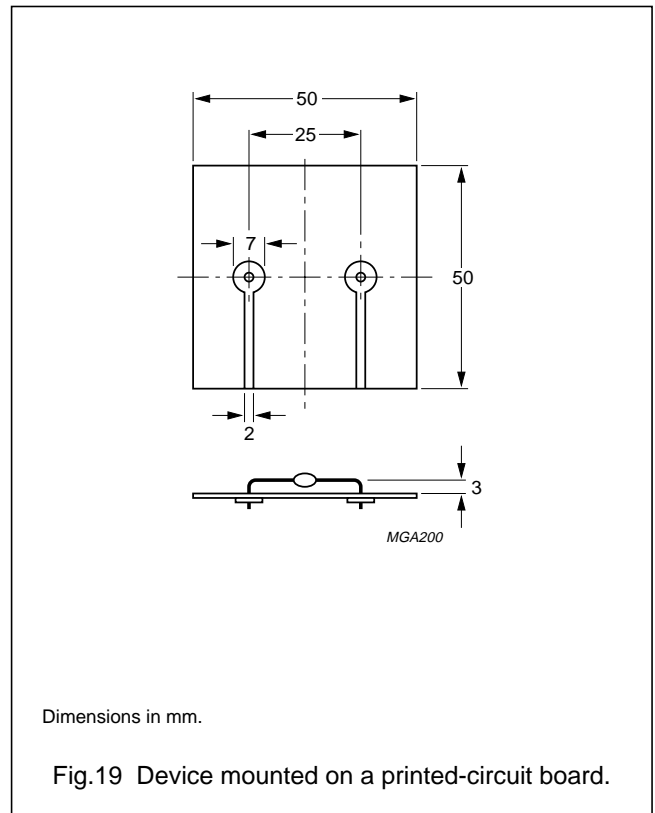
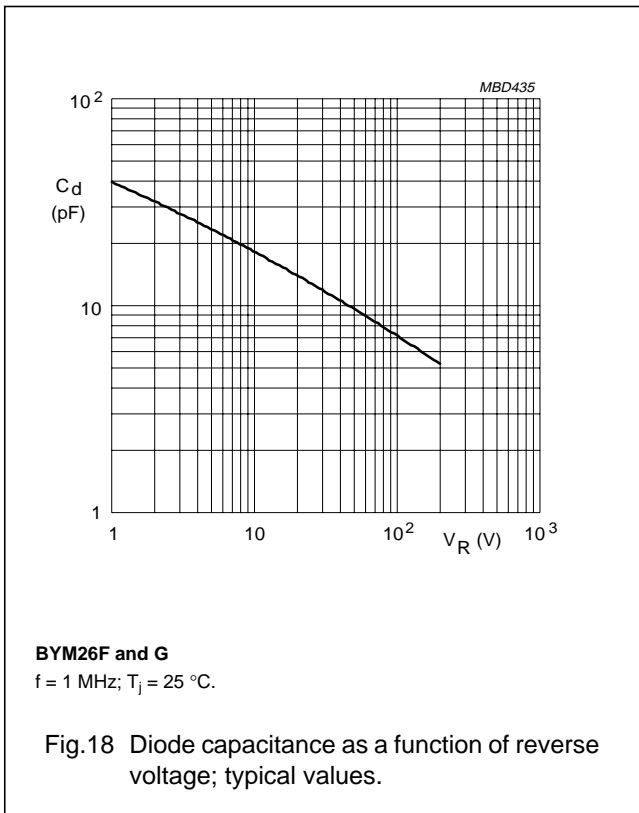
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