

Diodes

FMN1 / FMP1 / IMN10 / IMN11 / IMP11 / UMN1N / UMP1N / UMN11N / UMP11N

●Absolute maximum ratings (Ta=25°C)

Type	Peak reverse voltage V _{RM} (V)	DC reverse voltage V _R (V)	Peak forward current I _{FM} (mA)	Mean rectifying current I _o (mA)	Surge current (1μs) I _{surge} (A)	Power dissipation (TOTAL) Pd (mW)	Junction temperature T _j (°C)	Storage temperature T _{stg} (°C)
FMN1 UMN1N	80	80	80	25	0.25	150/80	150	-55~+150
FMP1 UMP1N	80	80	80	25	0.25	150/80	150	-55~+150
IMN10	80	80	300	100	4	300 *1	150	-55~+150
IMN11 UMN11N	80	80	300	100	4	150 *2	150	-55~+150
IMP11 UMP11N	80	80	300	100	4	150 *2	150	-55~+150

*1 Not to exceed 200mW per element.
*2 Not to exceed 120mW per element.

●Electrical characteristics (Ta=25°C)

Type	Forward voltage		Reverse current		Capacitance between terminals			Reverse recovery time		
	V _F (V) Max.	Cond.	I _R (μA) Max.	Cond.	C _T (pF) Max.	Cond.		t _{rr} (ns) Max.	Cond.	
		I _F (mA)		V _R (V)		V _R (V)	f (MHz)		V _R (V)	I _F (mA)
FMN1 UMN1N	0.9	5	0.1	70	3.5	6	1	4	6	5
FMP1 UMP1N	0.9	5	0.1	70	3.5	6	1	4	6	5
IMN10	1.2	100	0.1	70	3.5	6	1	4	6	5
IMN11 UMN11N	1.2	100	0.1	70	3.5	6	1	4	6	5
IMP11 UMP11N	1.2	100	0.1	70	3.5	6	1	4	6	5

●Electrical characteristic curves (Ta=25°C)

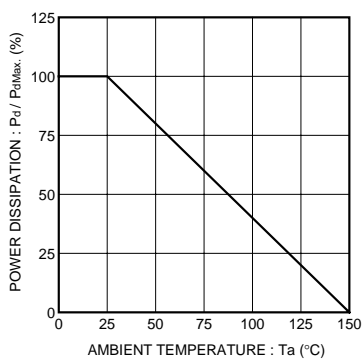


Fig.1 Power reduction curve

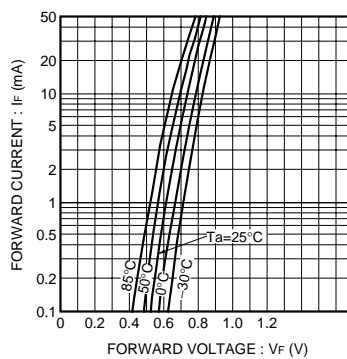


Fig.2 Forward characteristics
(P Type)

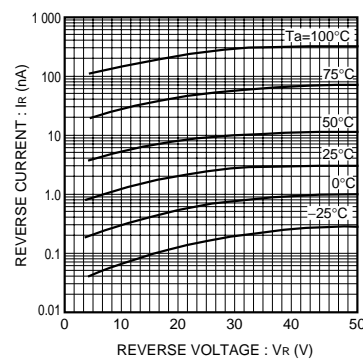


Fig.3 Reverse characteristics
(P Type)

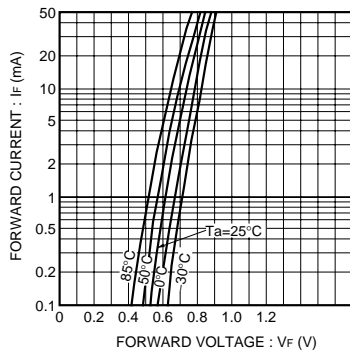


Fig.4 Forward characteristics (N Type)

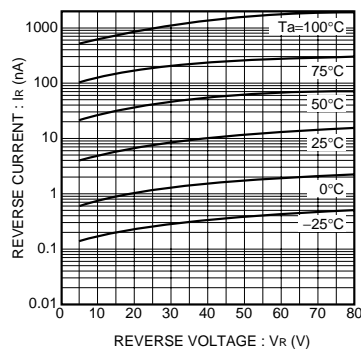


Fig.5 Reverse characteristics (N Type)

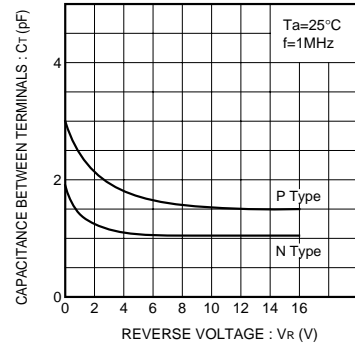


Fig.6 Capacitance between terminals characteristics (N Type)

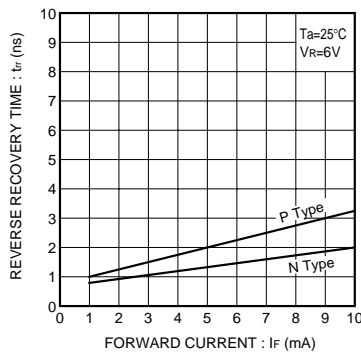


Fig.7 Reverse recovery time

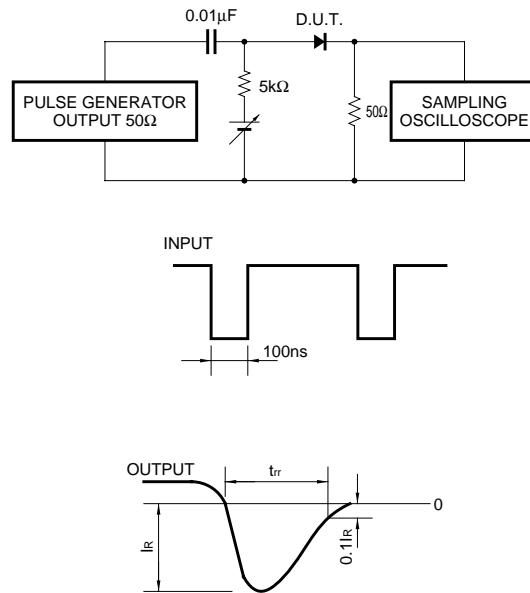


Fig.8 Reverse recovery time (t_{rr}) measurement circuit