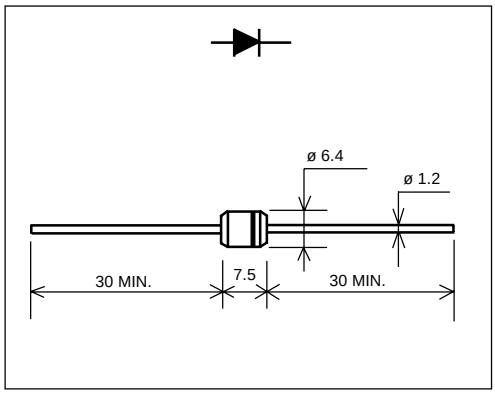
ERD38 (1.5A)

(400 to 600V / 1.5A)

FAST RECOVERY DIODE

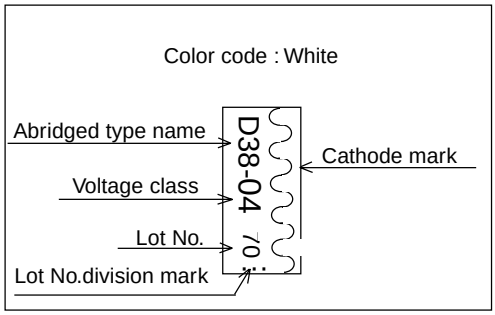
■ Outline drawings, mm



■ Features

- Super high speed switching
- Low V_F in turn on
- High reliability

■ Marking



■ Applications

- High speed switching

■ Maximum ratings and characteristics

● Absolute maximum ratings

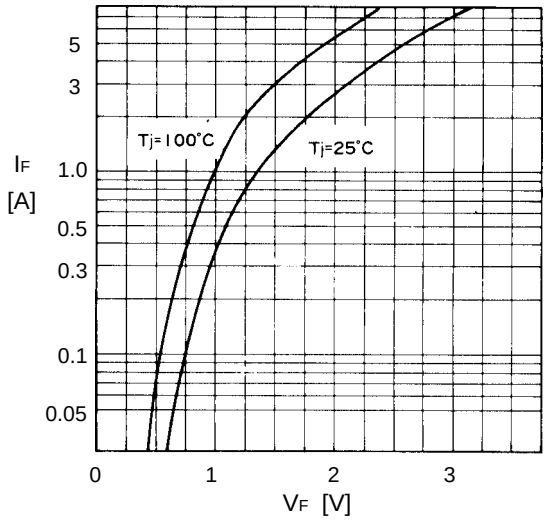
Item	Symbol	Conditions	Rating			Unit
			-04	-05	-06	
Repetitive peak reverse voltage	V_{RRM}		400	500	600	V
Non-repetitive peak renerse voltage	V_{RSM}		400	500	600	V
Average forward current	$I_{F(AV)}$	Resistive load (Ta =25°C)	1.5			A
Surge current	I_{FSM}	Sine wave 10ms	80			A
Operating junction temperature	T_j		-40 to +150			°C
Storage temperature	T_{stg}		-40 to +150			°C

● Electrical characteristics (Ta=25°C Unless otherwise specified)

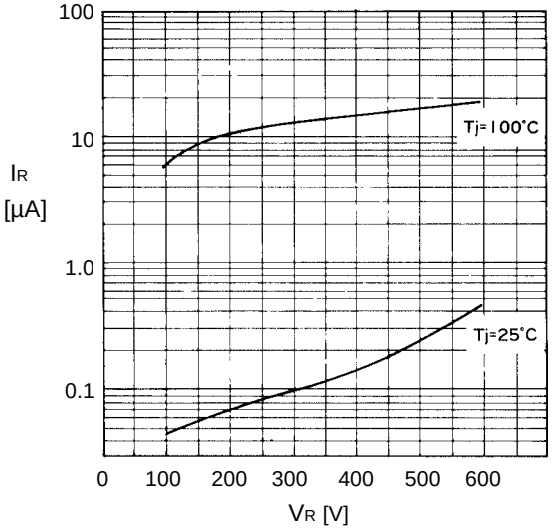
Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V_{FM}	I_{FM}=1.5A	2.5	V
Reverse current	I_{RRM}	$V_R=V_{RRM}$	100	μA
Reverse recovery time	t rr	I_F=0.1A, I_R=0.2A	50	ns

■ Characteristics

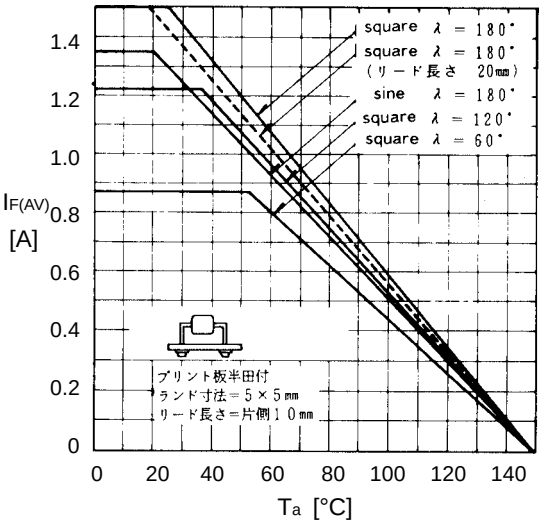
Forward characteristics



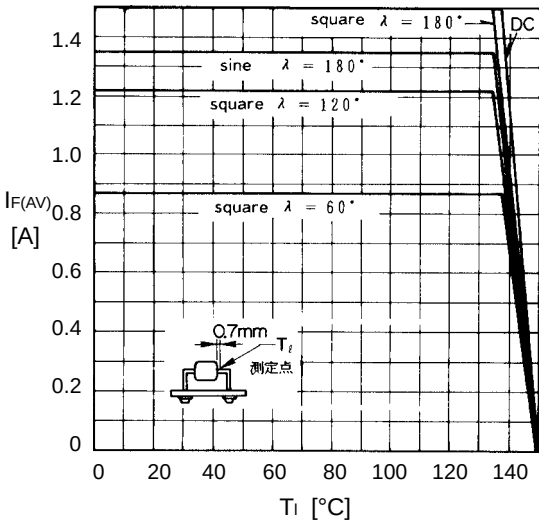
Reverse characteristics



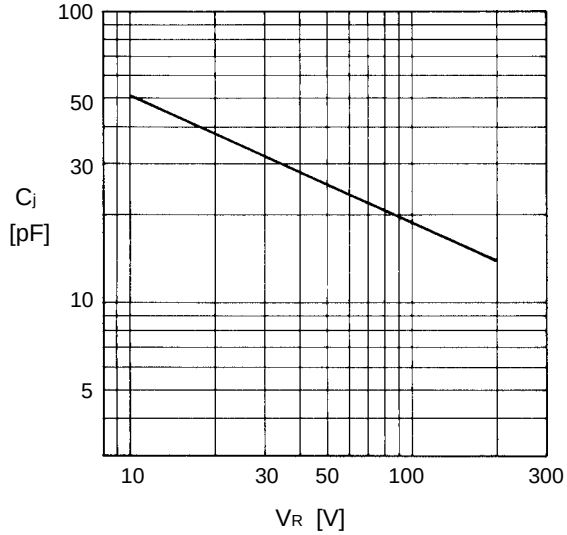
Current derating ($I_{F(AV)}$-T_a)



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



Junction capacitance characteristics



Surge capability

