MA3D691 (MA6D91)

Silicon planar type

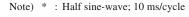
For high-frequency rectification

■ Features

- Low forward rise voltage V_F
- Fast reverse recovery time t_{rr}
- TO-220D (Full-pack package) with high dielectric breakdown voltage > 5.0 kV
- Easy-to-mount, caused by its V cut lead end

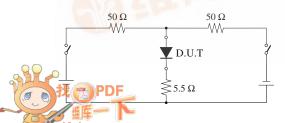
■ Absolute Maximum Ratings $T_a = 25$ °C

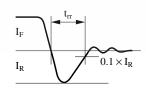
Parameter	Symbol	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}	200	V
Non-repetitive peak reverse surge voltage	V _{RSM}	200	V
Average forward current	I _{F(AV)}	10	A
Non-repetitive peak forward surge current*	I_{FSM}	70	A
Junction temperature	T _j	-40 to +150	°C
Storage temperature	T_{stg}	-40 to +150	°C

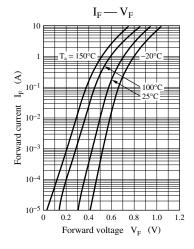


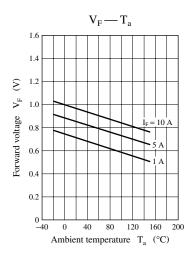
Unit: mm 2.6 ± 0.1 1: Cathode 2: Anode TO-220D Package (2-pin)

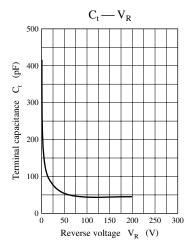
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Rep <mark>etitive peak reverse current</mark>	I_{RRM1}	$V_{RRM} = 200 \text{ V}, T_C = 25^{\circ}\text{C}$			100	μА
	I _{RRM2}	$V_{RRM} = 200 \text{ V}, T_j = 150^{\circ}\text{C}$			10	mA
Forward voltage (DC)	V _F	$I_F = 10 \text{ A}, T_C = 25^{\circ}\text{C}$			1.00	V
Reverse recovery time*	t _{rr}	$I_F = 1 A, I_R = 1 A$	1.63	110	100	ns
Thermal resistance	R _{th(j-c)}	18			3	°C/W
	R _{th(j-a)}	z. FM FM			63	°C/W











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