

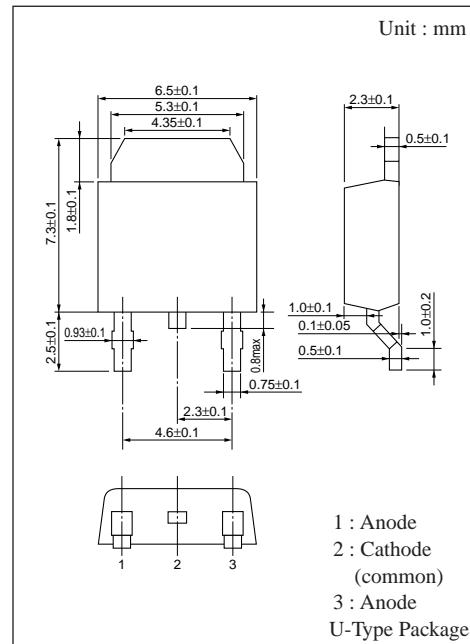
MA3U649

Silicon planer type (cathode common)

For high-frequency rectification

■ Features

- Small U-type package and surface mounting
- Low-loss type with fast reverse recovery time t_{rr}
- Cathode common dual type



■ Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}	200	V
Non-repetitive peak reverse voltage	V_{RSM}	200	V
Average forward current	$I_{F(AV)}^1$	5	A
Non-repetitive peak forward surge current	I_{FSM}^2	40	A
Junction temperature	T_j	-40 to +150	°C
Storage temperature	T_{stg}	-40 to +150	°C

*¹ $T_C = 25^\circ\text{C}$

*² Sine half wave : 10ms/cycle

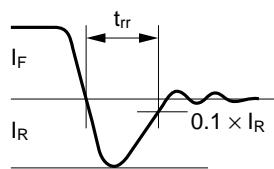
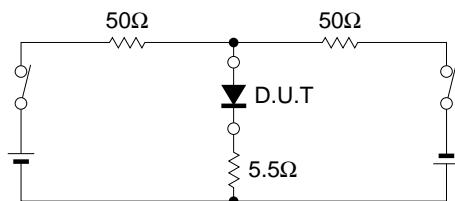
■ Electrical Characteristics ($T_a = 25^\circ\text{C}$)

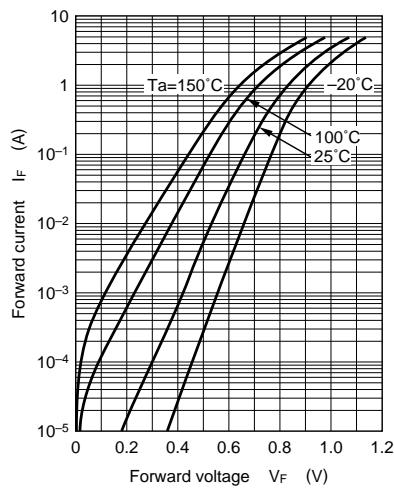
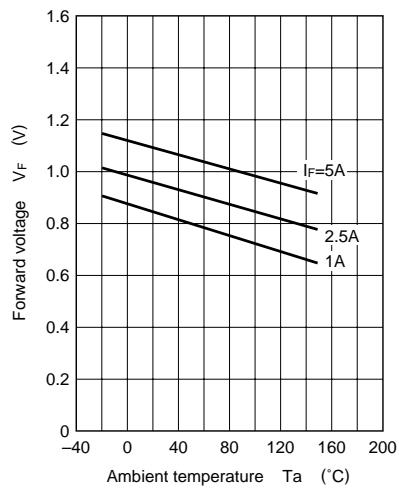
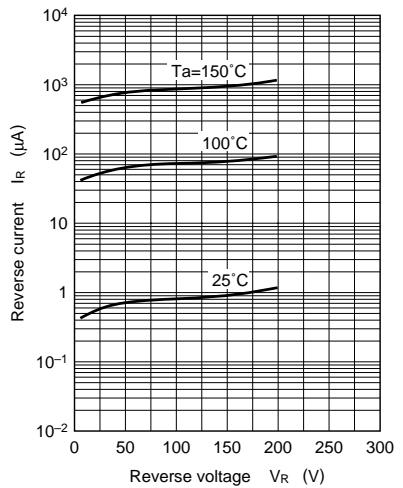
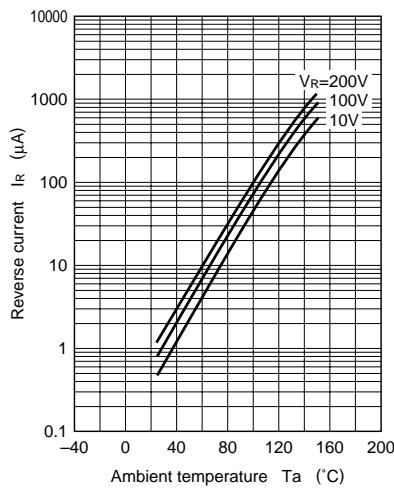
Parameter	Symbol	Condition	min	typ	max	Unit
Repetitive peak reverse current	I_{RRM1}	$V_{RRM} = 200\text{V}, T_C = 25^\circ\text{C}$			20	μA
	I_{RRM2}	$V_{RRM} = 200\text{V}, T_j = 150^\circ\text{C}$			2	mA
Forward voltage (DC)	V_F	$I_F = 2.5\text{A}, T_C = 25^\circ\text{C}$			0.98	V
Reverse recovery time	t_{rr}^2	$I_F = 1\text{A}, I_R = 1\text{A}$			30	ns
Thermal resistance	$R_{th(j-c)}^1$	Flat direct current between junction and case			12.5	°C/W

Note 1. Rated input/output frequency : 200MHz

2. *¹ $T_C = 25^\circ\text{C}$

*² t_{rr} measuring circuit



$I_F - V_F$  $V_F - Ta$  $I_R - V_R$  $I_R - Ta$  $C_t - V_R$ 