

MA753-(DS), MA753A-(DS)

Silicon epitaxial planer type (cathode common)

For switching power supply

■ Features

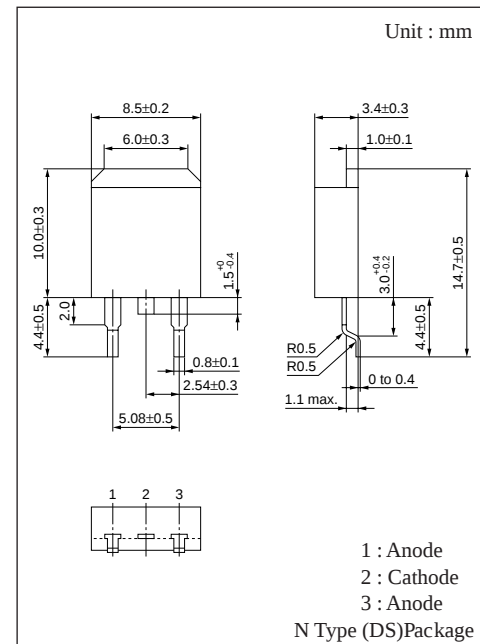
- Automatic insertion possible
- Cathode common dual type
- Low forward voltage V_F

■ Absolute Maximum Ratings (Ta= 25°C)

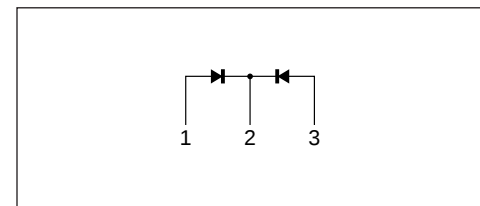
Parameter	Symbol	Rating	Unit
Repetitive peak reverse voltage	MA753	40	V
	MA753A	45	
Forward current (DC)	$I_{F(AV)}^{*2}$	50	A
Non-repetitive peak forward surge current	$I_{FSM}^{*1, 2}$	90	A
Junction temperature	T_j	– 40 to +125	°C
Storage temperature	T_{stg}	– 40 to +125	°C

*1 Sine half wave : 10ms/cycle

*2 Use value in the double mode



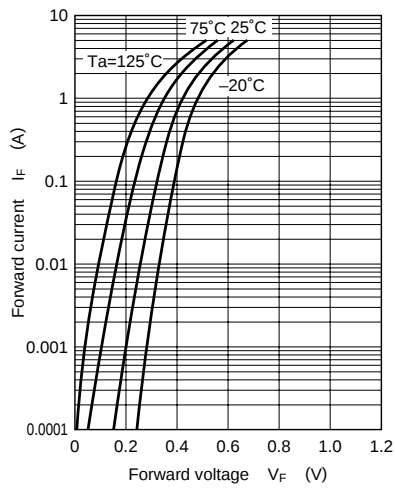
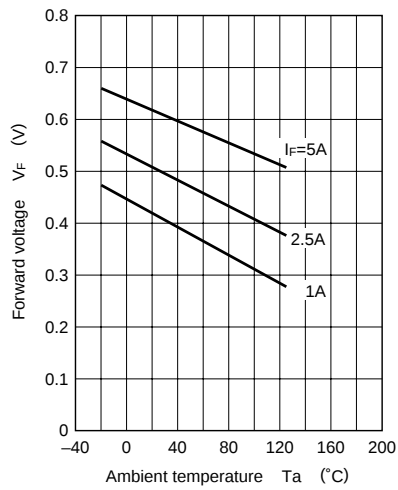
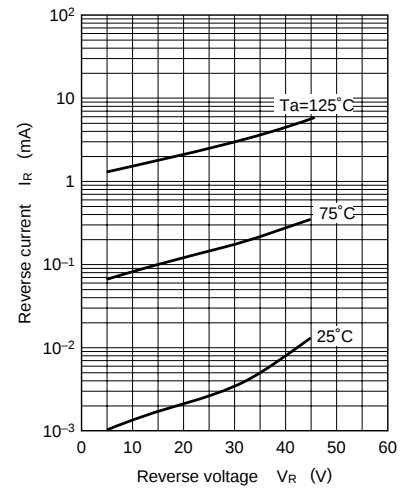
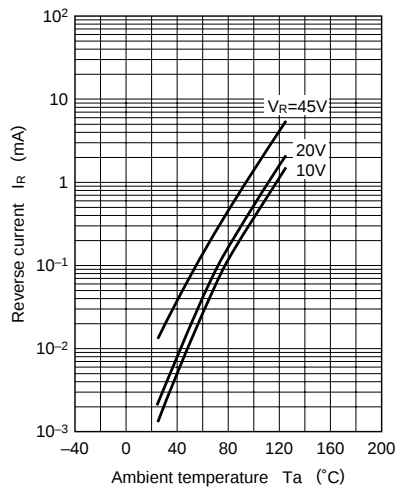
■ Internal Connection



■ Electrical Characteristics (Ta= 25°C)

Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	MA753	$V_R = 40V, T_C = 25^\circ C$			1	mA
	MA753A	$V_R = 45V, T_C = 25^\circ C$			1	
Forward voltage (DC)	V_F	$I_F = 2.5A, T_C = 25^\circ C$			0.55	V
Thermal resistance	$R_{th(j-c)}$	Flat direct current between junction and case		4.5		°C/W

❖ Rated input/output frequency : 200MHz

$I_F - V_F$  $V_F - T_a$  $I_R - V_R$  $I_R - T_a$  $C_t - V_R$ 