

MA165, MA166, MA167

Silicon epitaxial planer type

For switching circuits

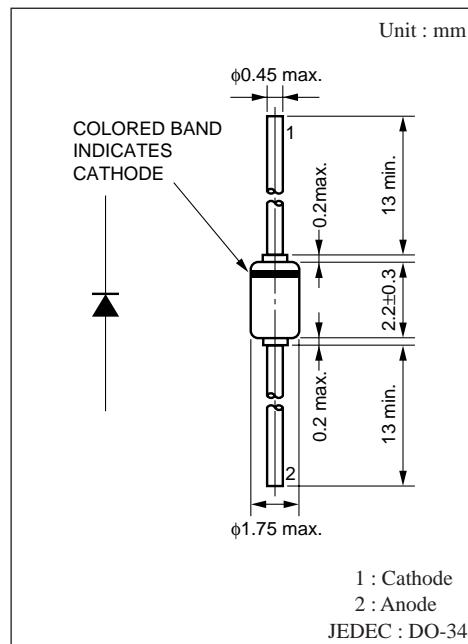
■ Features

- Short reverse recovery period t_{rr}
- Small capacity between pins, C_t

■ Absolute Maximum Ratings (Ta= 25°C)

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V _R	35	V
		50	
		75	
Repetitive peak reverse voltage	V _{RRM}	35	V
		50	
		75	
Average forward current	I _{F(AV)}	100	mA
Repetitive peak forward current	I _{FRM}	225	mA
Non-repetitive peak forward surge current	I _{FSM} *	500	mA
Junction temperature	T _j	200	°C
Storage temperature	T _{stg}	-55 to + 200	°C

* t=1s



■ Electrical Characteristics (Ta= 25°C)

Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	I _R	V _R =15V			0.025	μA
		V _R = 30V			0.1	
		V _R =15V			0.025	
		V _R = 50V			5	
		V _R = 20V		0.012	0.025	
	I _R	V _R = 75V		0.1	5	
		V _R = 35V, Ta=150°C			100	
		V _R = 50V, Ta=150°C			100	
		V _R =75V, Ta=150°C		50	100	
	I _R					
Forward voltage (DC)	V _F	I _F =100mA		0.95	1.2	V
Reverse voltage (DC)	V _R	I _R = 5μA	35			V
Terminal capacitance	C _t	V _R = 0V, f=1MHz		0.9	2	pF
Reverse recovery time	t _{rr} *	I _F =10mA, V _R =1V			10	ns
		I _{rr} = 0.1 · I _R , R _L =100Ω		2.2	4	

❖ Rated input/output frequency : 100MHz (MA165), 250MHz (MA167), 1,000MHz (MA166)

■ Cathode Indication

Type No.	MA165	MA166	MA167
Color	White	Green	Violet

* t_{tr} measuring circuit

