

ESC021M-15 (5A) (1500V / 5A, 600V / 5A)

FAST RECOVERY DIODE

■ Features

- Damper diode for high definition T.V. and high resolution display
- Damper and modulator diode are jointed in a body
- Insulated package by fully molding
- High voltage by mesa design
- High reliability

■ Applications

- Horizontal deflection circuit

■ Maximum ratings and characteristics

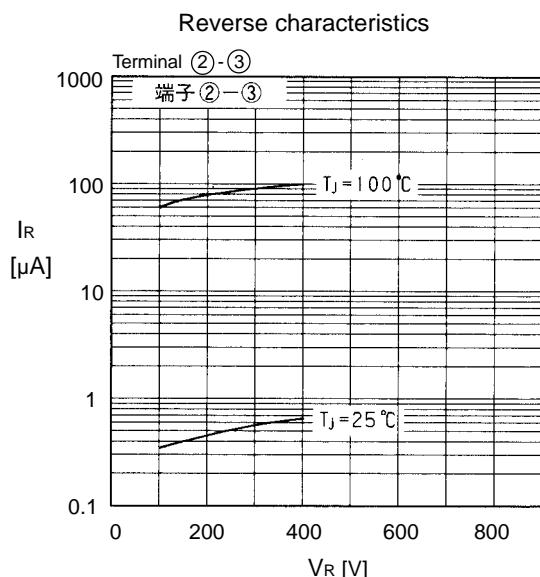
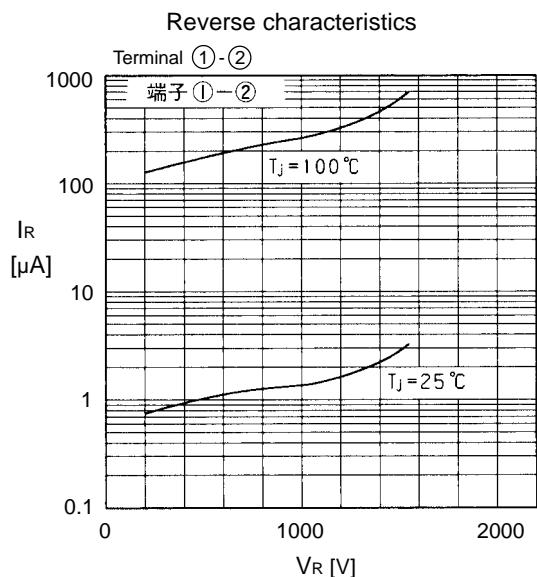
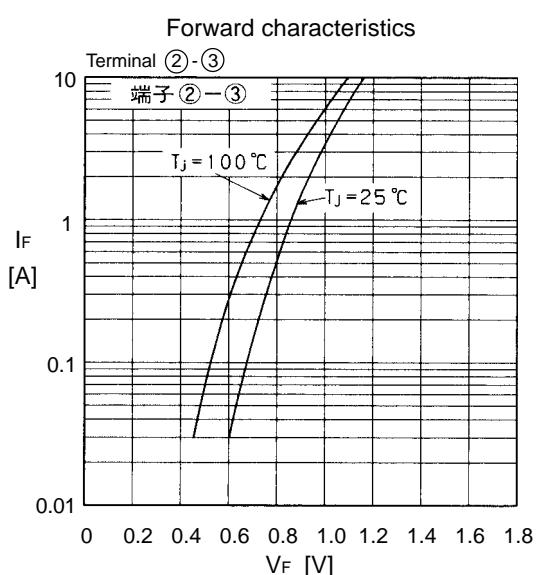
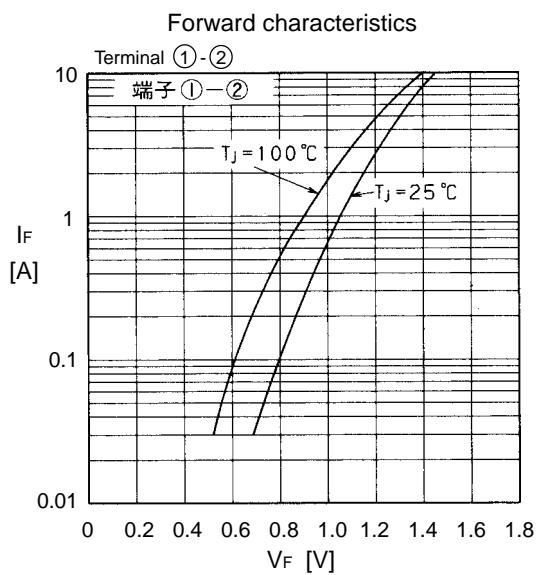
- Absolute maximum ratings

Item	Symbol	Conditions	Rating		Unit
			① to ②	② to ③	
Repetitive peak reverse voltage	V _{RRM}		600	1500	V
Non-repetitive peak reverse voltage	V _{RSM}		600	1500	V
Average output current	I _O	Square wave, duty=1/2, T _c =90°C	5.0		A
Surge current	I _{FSM}	Sine wave 10ms	50	50	A
Operating junction temperature	T _j		-40 to +150		°C
Storage temperature	T _{stg}		-40 to +150		°C

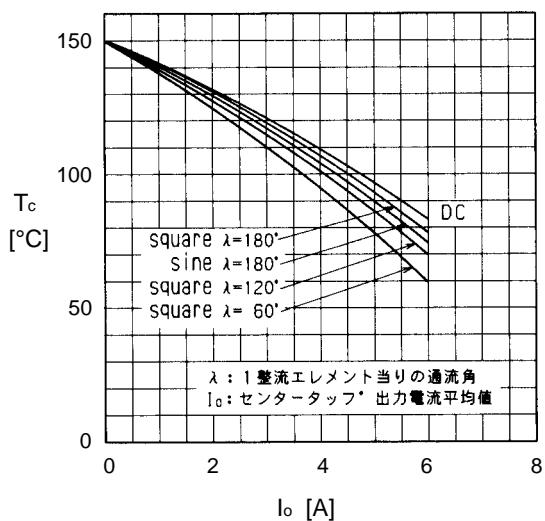
- Electrical characteristics (Ta=25°C Unless otherwise specified)

Item	Symbol	Conditions	Max.		Unit
			① to ②	② to ③	
Forward voltage drop	V _{FM}	I _{FM} =4A	3.0	1.6	V
Reverse current	I _{RRM}	V _R =V _{RRM}	100	10	µA
Reverse recovery time	t _{rr}	I _{FM} =0.1A, I _{RR} =0.1A	0.15	2.2	µs
Thermal resistance	R _{th(j-c)}	Junction to case	2.5		°C / W

■ Characteristics



Output current - Case temperature



■ Characteristics

