

ERC20 (5A)

(200V to 800V / 5A)

FAST RECOVERY DIODE

■ Features

- High voltage by mesa design
- High reliability

■ Applications

- High speed switching

■ Maximum ratings and characteristics

- Absolute maximum ratings

Item	Symbol	Conditions	Rating				Unit
			-02	-04	-06	-08	
Repetitive peak reverse voltage	V _{RRM}		200	400	600	800	V
Non-repetitive peak reverse voltage	V _{RSM}		250	450	650	850	V
Average output current	I _O	Square wave, duty=1/2, T _c =125°C	5				A
Surge current	I _{FSM}	Sine wave 10ms	70				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
			-02	-04	-06	-08	
Forward voltage drop	V _{FM}	I _{FM} =5.0A	1.3	1.5			V
Reverse current	I _{RRM}	V _R =V _{RRM}		50			µA
Reverse recovery time	t _{rr}	I _f =0.1A, I _r =0.1A		400			ns
Thermal resistance	R _{th(j-c)}	Junction to case		3.0			°C/W

■ Characteristics



