



**TAYCHIPST**

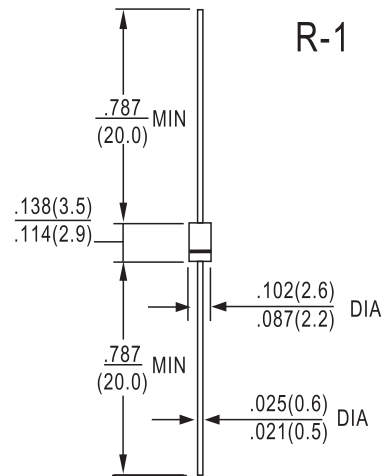
**FAST RECOVERY DIODE**

**ERA18-02 THRU ERA18-04**

**200V-400V 0.8A**

**FEATURES**

- High speed switching
- Ultra small package  
Possible for 5mm pitch automatic insertion
- High reliability



Dimensions in inches and (millimeters)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

- Absolute maximum ratings

Item	Symbol	Conditions	Rating		Unit
			-02	-04	
Repetitive peak reverse voltage	$V_{RRM}$		200	400	V
Non-repetitive peak reverse voltage	$V_{RSM}$		200	400	V
Average forward current	$I_{F(AV)}$	Resistive load ( $T_a=40^\circ\text{C}$ )	0.8		A
Surge current	$I_{FSM}$	Sine wave 10ms	30		A
Operating junction temperature	$T_j$		-40 to +140		$^\circ\text{C}$
Storage temperature	$T_{stg}$		-40 to +140		$^\circ\text{C}$

- Electrical characteristics ( $T_a=25^\circ\text{C}$  Unless otherwise specified )

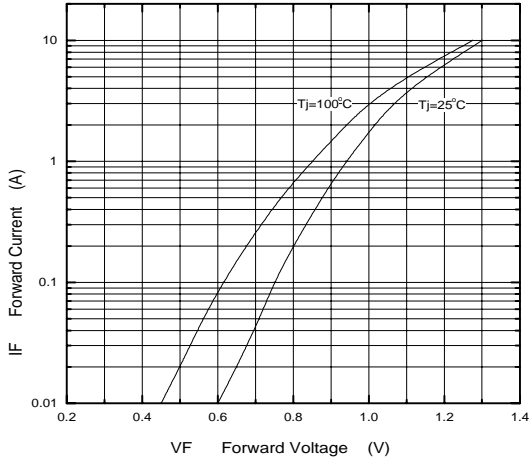
Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	$V_{FM}$	$I_{FM}=0.8\text{A}$	1.05	V
Reverse current	$I_{RRM}$	$V_R=V_{RRM}$	10	$\mu\text{A}$
Reverse recovery time	$t_{rr}$	$I_F=0.1\text{A}, I_R=0.1\text{A}$	0.4	$\mu\text{s}$



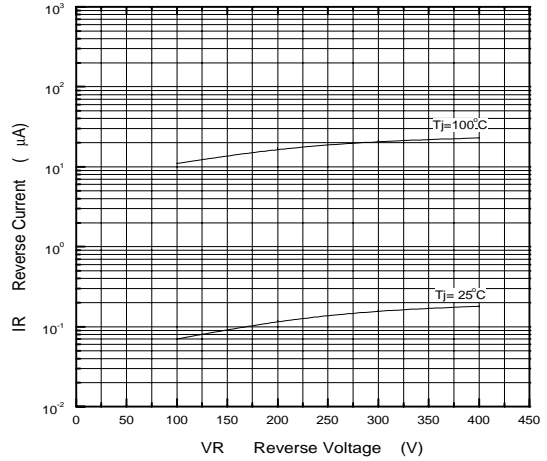
**RATINGS AND CHARACTERISTICS CURVES**

**ERA18-02 THRU ERA18-04**

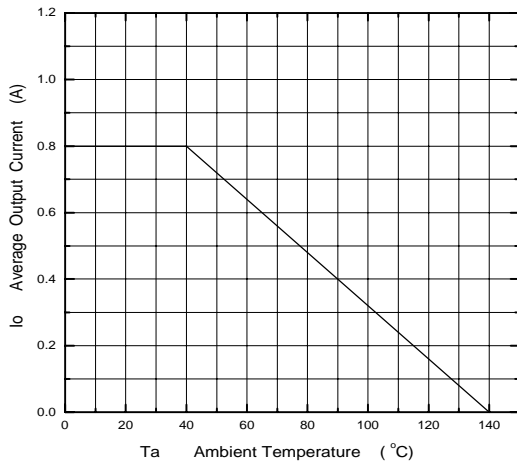
Forward Characteristic (typ.)



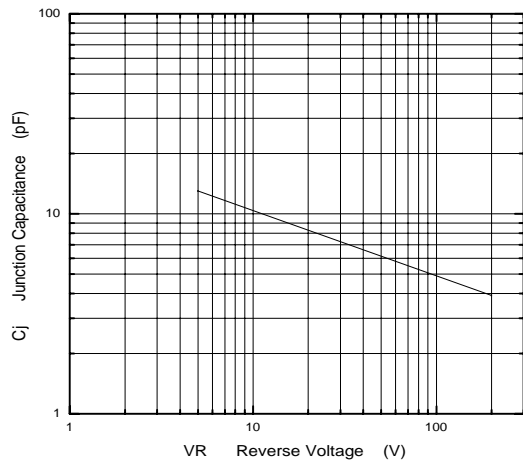
Reverse Characteristic (typ.)



Current Derating (Io-Ta)



Junction Capacitance Characteristic (typ.)



Surge Capability

