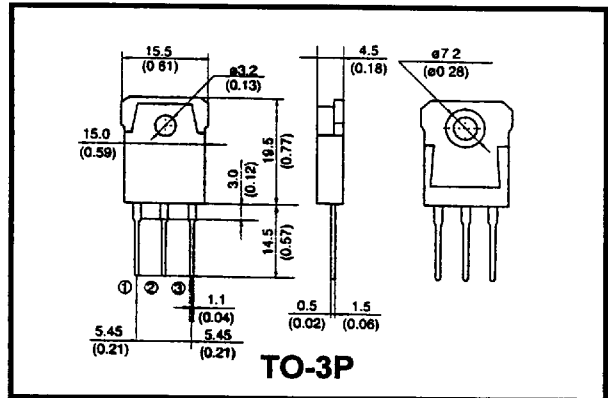


ESAD95-04 (20A)

LOW LOSS SUPER HIGH SPEED RECTIFIER

Outline Drawing



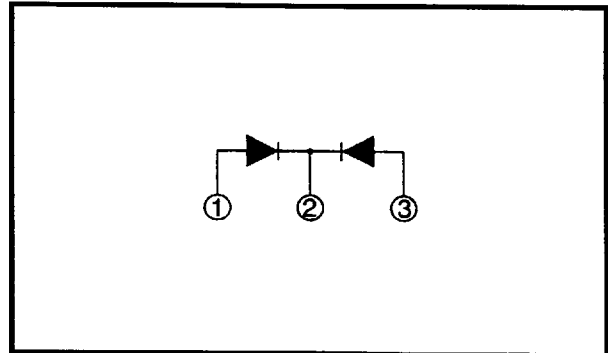
Features

- Low V_F
- Super high speed switching
- High reliability by planer design

Applications

- High speed power switching

Connection Diagram



Maximum Ratings & Characteristics

- Absolute Maximum Ratings

Items	Symbols	Conditions	Ratings	Units
Repetitive Peak Reverse Voltage	V_{RRM}		400	V
Average Output Current	I_O	$T_C = 105^\circ\text{C}$, Sq. Wave, duty = 1/2	20*	A
Surge Current	I_{FSM}	Sine Wave, 10ms	80	A
Operating Junction Temperature	T_J		-40 to +150	$^\circ\text{C}$
Storage Temperature	T_{stg}		-40 to +150	$^\circ\text{C}$

*Average forward current of center-tap full wave connection

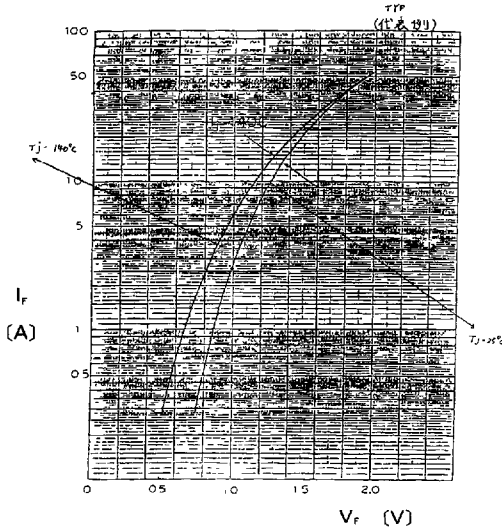
- Electrical Characteristics ($T_a = 25^\circ\text{C}$ Unless otherwise specified)

Items	Symbols	Conditions	Ratings	Units
Forward Voltage Drop	V_F	$I_F = 10\text{A}$	1.5	V
Reverse Current	I_R	$V_R = V_{RRM}$	200	μA
Reverse Recovery Time	t_{rr}	$I_F = 0.1\text{A}$, $I_R = 0.2\text{A}$	60	ns
Thermal Resistance	$R_{th(j-c)}$	Junction to case	1.5	$^\circ\text{C/W}$

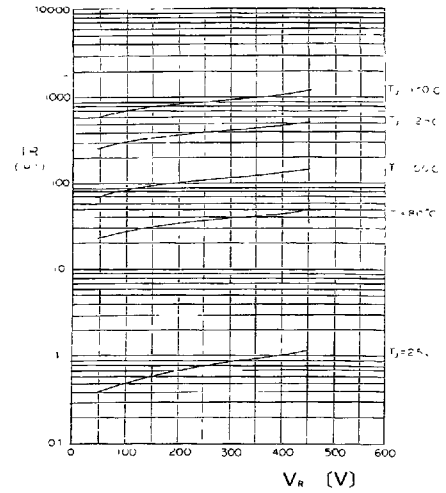
Collmer Semiconductor, Inc.
Phone: (214) 233-1589 - Fax: (214) 233-0481

2238792 0003876 908

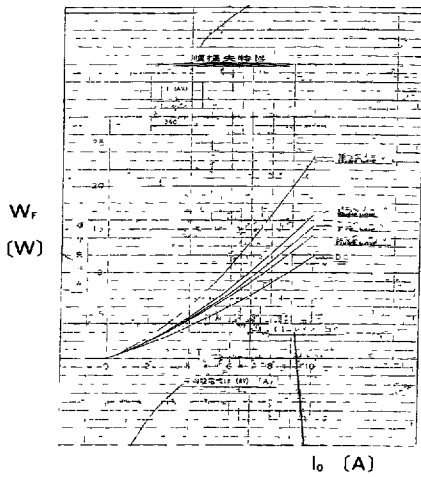
ESAD95-04 (20A)



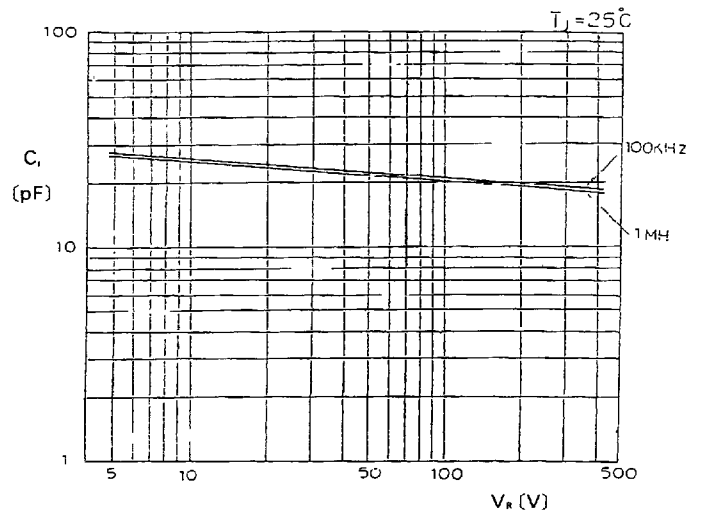
Forward Characteristics



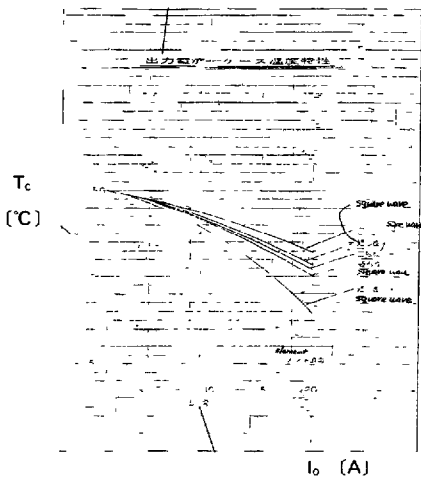
Reverse Characteristics



Forward Power Dissipation



Junction Capacitance Characteristics



Output Current-Case Temperature