

Fast Recovery Diodes

Single package

■ 2238792 0001275 2 ■ T-03-01

COLLMER SEMICONDUCTOR INC 25E D

Ratings and characteristics

Type	Maximum ratings V _{RRM} Volts	I _o *1 Amps.	I _{FSM} Amps.	Thermal ratings T _j and T _{stg} °C	Characteristics (Ta=25°C) V _{FM} Max. Volts	I _{RRM} *2 Max. mA	trr *3 μs	R _{thj-c} °C/W	Net weight Grams	Dimensions Fig. No.
ERC90-02	200	5 (Tc=125°C)	50	-40 to +150	0.95 (I _F =5A)	0.1	0.035**4	3.0	2.0	Fig. 1
ERC90M-02	200	5 (Tc=134°C)	50	-40 to +150	0.95 (I _F =5A)	0.1	0.035**4	3.5	2.3	Fig. 2
ERC20-02	200	5 (Tc=125°C)	70	-40 to +150	1.3 (I _F =5A)	0.05	0.4	3.0	2.0	Fig. 1
ERC20-04	400									
ERC20-06	600	5 (Tc=125°C)	70	-40 to +150	1.5 (I _F =5A)	0.05	0.4	3.0		
ERC20-08	800									
ERC20M-02	200	5 (Tc=125°C)	70	-40 to +150	1.3 (I _F =5A)	0.05	0.4	3.5	2.3	Fig. 2
ERC20M-04	400									
ERC20M-06	600	5 (Tc=125°C)	70	-40 to +150	1.5 (I _F =5A)	0.05	0.4	3.5		
ERC20M-08	800									
ERD08M-13	1300	5 (Tc=115°C)	50	-40 to +150	1.2 (I _F =4A)	0.01	1.5	2.5	5.5	Fig. 4
ERD08M-15	1500									
ERE42M-15	1500	5 (Tc=120°C)	50	-40 to +150	1.6 (I _F =5A)	0.01	2.2	2.5	5.5	Fig. 4
ERD24-005	50	12 (Tc=100°C)	120	-40 to +150	1.3 (I _F =12A)	5 (T _j =150°C)	0.3	2.1	5.5	Fig. 3
ERD24-01	100									
ERD24-02	200									
ERD24-04	400									
ERD24-06	600	12 (Tc=90°C)	120	-40 to +150	1.3 (I _F =12A)	5 (T _j =150°C)	0.3	2.1		
ERD74-005	50	12 (Tc=100°C)	120	-40 to +150	1.3 (I _F =12A)	5 (T _j =140°C)	0.3	2.1	5.5	Fig. 3
ERD74-01	100									
ERD74-02	200									
ERD74-04	400									
ERD74-06	600	12 (Tc=90°C)	120	-40 to +150	1.3 (I _F =12A)	5 (T _j =150°C)	0.3	2.1		
ERD75-005	50	20 (Tc=98°C)	200	-40 to +150	0.95 (I _F =15A)	1.5 (T _j =150°C)	0.3	2.1	5.5	Fig. 3
ERD75-01	100									
ERD75-02	200									
ERE24-005	50	20 (Tc=104°C)	180	-40 to +150	1.3 (I _F =20A)	10 (T _j =150°C)	0.3	1.2	12	Fig. 5
ERE24-01	100									
ERE24-02	200									
ERE24-04	400									
ERE24-06	600	30 (Tc=87°C)	180	-40 to +150	1.3 (I _F =30A)	15 (T _j =150°C)	0.3	1.2		
ERE74-005	50	20 (Tc=104°C)	180	-40 to +150	1.3 (I _F =20A)	10 (T _j =150°C)	0.3	1.2	12	Fig. 5
ERE74-01	100									
ERE74-02	200									
ERE74-04	400									
ERE74-06	600	30 (Tc=87°C)	180	-40 to +150	1.3 (I _F =30A)	15 (T _j =150°C)	0.3	1.2		

Notes: () indicates conditions

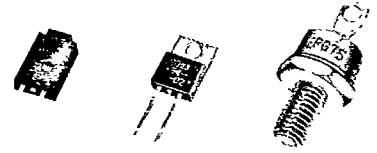
Other conditions

*1 50Hz, Sine wave

*2 V_R=V_{RRM}

*3 I_F=I_R=0.1A

*4 I_F=0.1A, I_R=0.2A



Dimensions

mm
(inch)

Fig. 1 TO-220AB

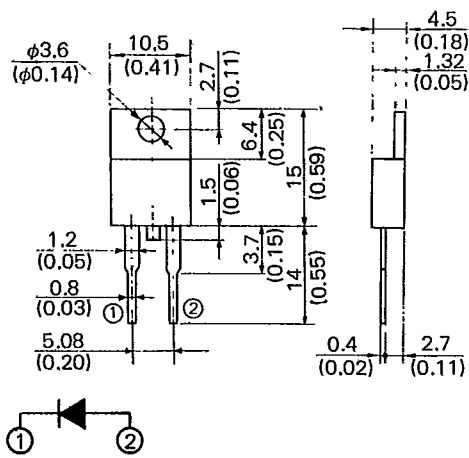


Fig. 2 TO-220F (Full molded package)

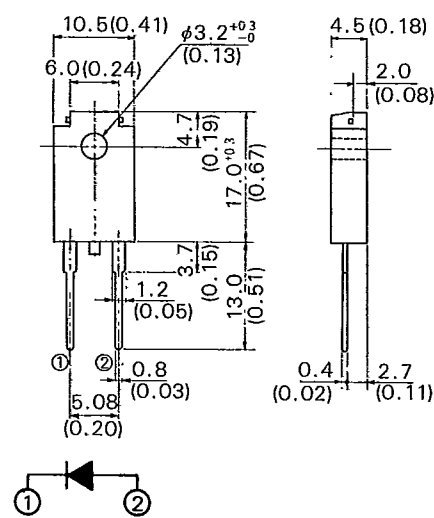
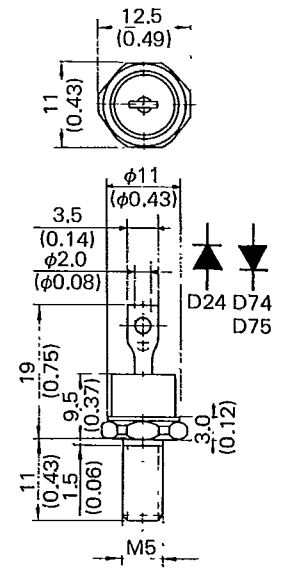


Fig. 3



Tightening torque 15 kg-cm

Fig. 4 TO-3PF (Full molded package)

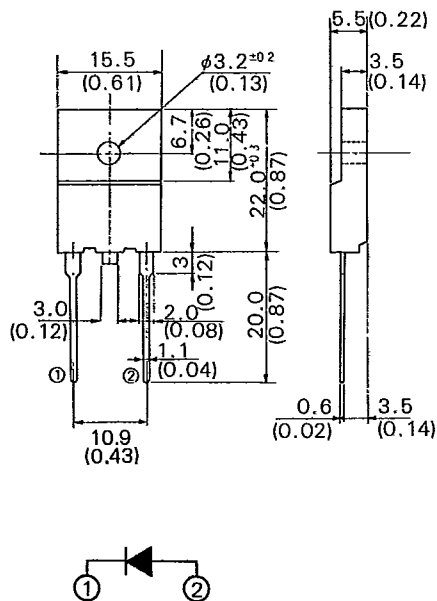
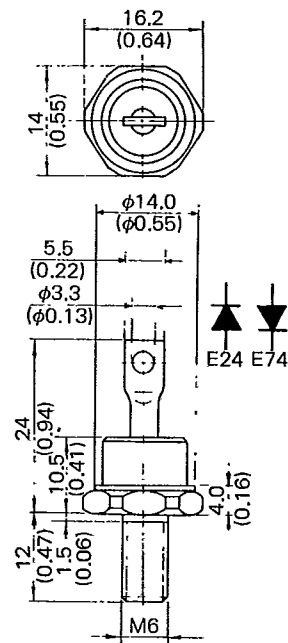


Fig. 5



Tightening torque 30 kg-cm