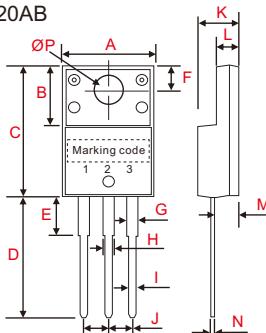


■ Features

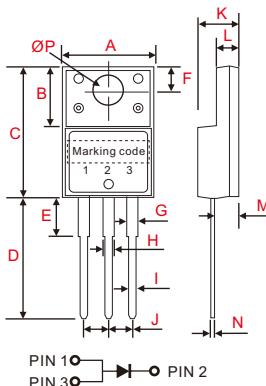
- Low forward voltage drop.
- Excellent high temperature stability.
- Fast switching capability.
- Suffix "G" indicates Halogen-free part, ex.CSF10200CSG-A.
- Lead-free parts meet environmental standards of MIL-STD-19500 /228

■ Outline

ITO-220AB



symbol	Dimensions in inches(millimeters)	
	Min	Max
A	0.390(9.9)	0.408(10.36)
B	0.268(6.8)	0.283(7.2)
C	0.583(14.8)	0.598(15.2)
D	0.512(13.0)	0.543(13.8)
E	0.102(2.6)	0.150(3.8)
F	0.101(2.55)	0.112(2.85)
G	0.043(1.1)	0.053(1.35)
H	0.043(1.1)	0.053(1.35)
I	0.020(0.5)	0.028(0.7)
J	0.098(2.49)	0.102(2.59)
K	0.169(4.3)	0.185(4.7)
L	0.112(2.85)	0.128(3.25)
M	0.098(2.5)	0.114(2.9)
N	0.020(0.5)	0.028(0.7)
OP	0.130(3.3)	0.134(3.5)



symbol	Dimensions in inches(millimeters)	
	Min	Max
A	0.390(9.9)	0.398(10.1)
B	0.264(6.7)	0.272(6.9)
C	0.587(14.9)	0.595(15.1)
D	0.492(12.5)	0.532(13.5)
E	0.142(3.4)	0.150(3.8)
F	0.098(2.5)	0.118(3.0)
G	0.043(1.1)	0.055(1.4)
H	0.043(1.1)	0.055(1.4)
I	0.020(0.5)	0.030(0.75)
J	0.095(2.42)	0.105(2.66)
K	0.173(4.4)	0.181(4.6)
L	0.102(2.6)	0.110(2.8)
M	0.097(2.45)	0.100(2.55)
N	0.020(0.5)	0.028(0.7)
OP	0.134(3.4)	0.142(3.6)

■ Mechanical data

- Epoxy : UL94-V0 rated flame retardant.
- Case : JEDEC ITO-220AB molded plastic body.
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026.
- Polarity: As marked.
- Mounting Position : Any.
- Weight : Approximated 2.25 gram.

■ Maximum ratings and electrical characteristics

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Parameter	Conditions	Symbol	CSF10200CS-A		UNIT
Marking code				CSF10200CS	
Peak repetitive reverse voltage		V_{RRM}			
Working peak reverse voltage		V_{RWM}	200		V
DC blocking voltage		V_{RM}			
Forward rectified current		I_O	10		A
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	120		A
Peak repetitive reverse surge current	2us - 1kHz	I_{RRM}	1		A
Thermal resistance(1)	Junction to case	$R_{\theta JC}$	4		°C/W
Operating and Storage temperature		T_J, T_{STG}	-65 ~ +175		°C

Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	UNIT
Forward voltage drop	$I_F = 5A, T_J = 25^{\circ}C$	V_F			850	mV
	$I_F = 10A, T_J = 25^{\circ}C$			833		
Reverse current	$V_R = V_{RRM}, T_J = 25^{\circ}C$	I_R			0.1	mA
	$V_R = V_{RRM}, T_J = 125^{\circ}C$				20	

Note : 1.Thermal resistance from junction to case per leg, with heatsink size(1.35" x 0.95" x 0.18") Al-plate.

- Rating and characteristic curves

Fig. 1 - Instantaneous Forward Characteristics

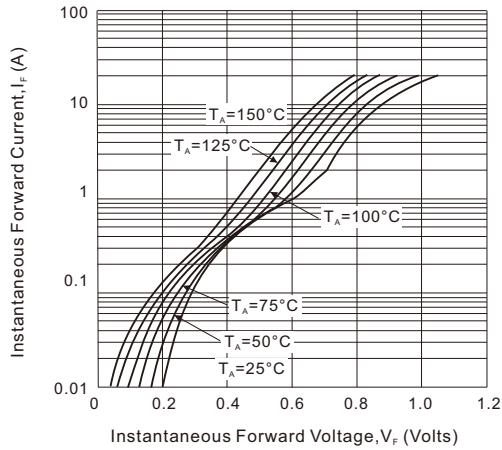


Fig.2 - Forward Current Derating Curve

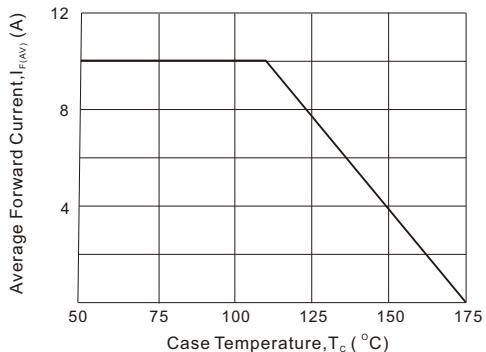
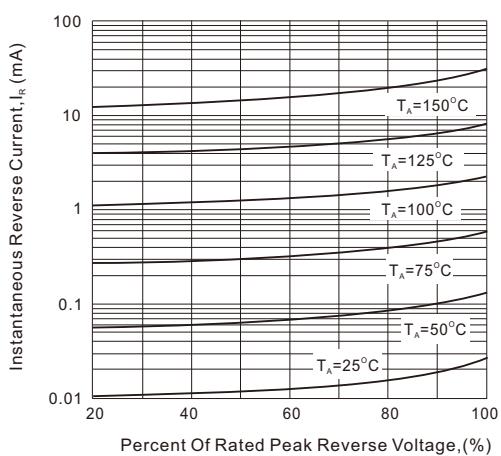


Fig. 3 - Reverse Characteristics



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