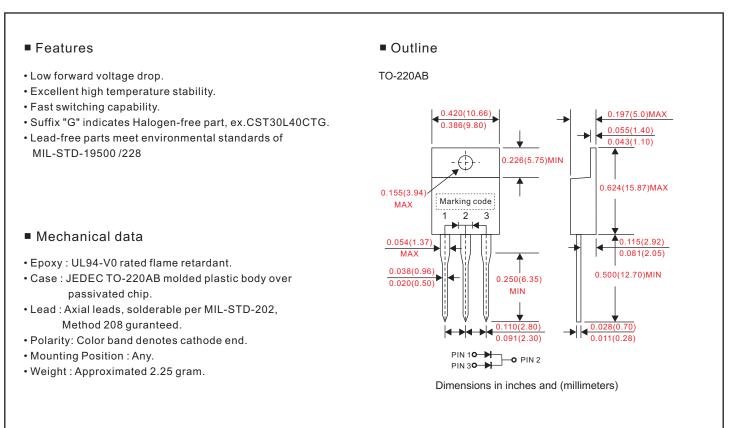
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CST30L40CT

30A Trench Low Barrier Diode



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	CST30L40CT CST30L40CT			- UNIT
Marking code						
Peak repetitive reverse voltage		V _{RRM}				
Working peak reverse voltage		V _{RWM}	40			V
DC blocking voltage		V _{RM}				
Forward rectified current (total device)	$T_c = 110^{\circ}C$	I _o	30			A
Forward surge current (per diode)	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I _{fsm}	250			A
Peak repetitive reverse surge current	2us - 1kHz	I _{RRM}	3		A	
(per diode)						
Thermal resistance(1) (per diode)	Junction to case	R _{ejc}	2			°C/W
Operating and Storage temperature		T_J, T_{STG}	-65 ~ +150			°C
Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	UNIT
	$I_{F} = 15A, T_{J} = 25^{\circ}C$			450	500	
Forward voltage drop (per diode)	I _F = 15A, T _J = 125 ^o C	V _F		420	450	mV
		1		1		

Reverse current (per diode)

 $I_{F} = 30A, T_{J} = 25^{\circ}C$

 $V_{R} = V_{RRM} T_{J} = 25^{\circ}C$

 $V_{R} = V_{RRM} T_{J} = 125^{\circ}C$

0.5

100

mΑ

600

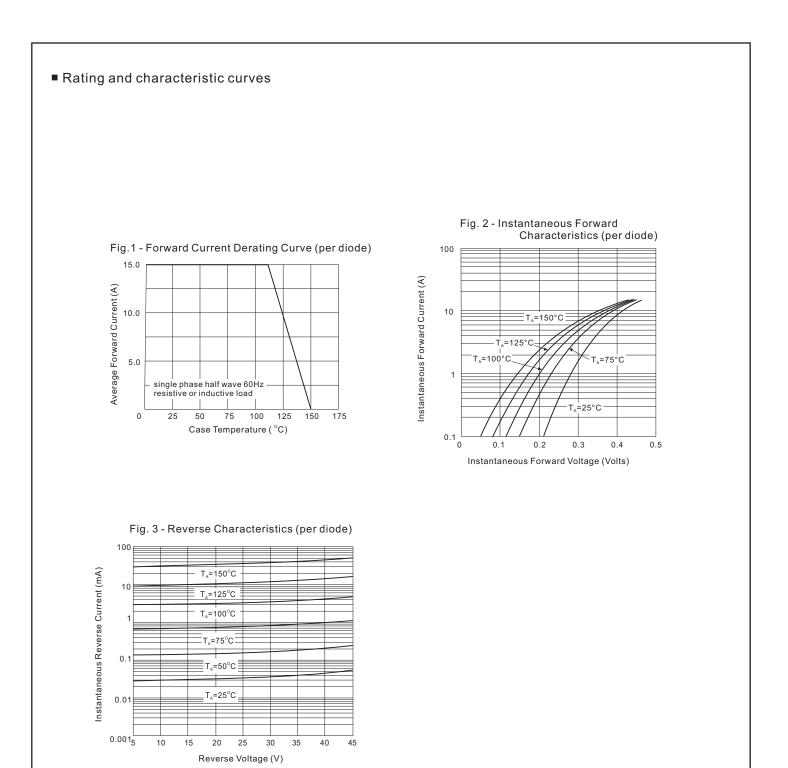
0.06

I_R



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