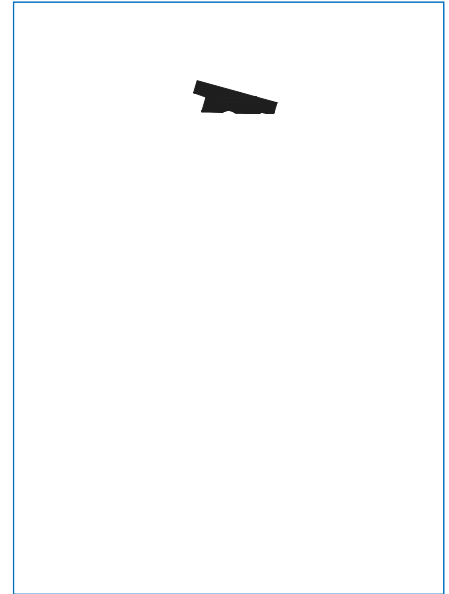




JPCR10012SL

EPI PLANAR HYPERFAST SOFT RECOVERY RECTIFIER



Reverse current	$V_R=1200V, T_j=25$	I_R	-	-	20	μA
	$V_R=1200V, T_j=150$		-	-	1000	μA
Reverse recovery time	$I_F=1A, V_R=30V,$ $di_F/dt=200A/\mu s, T_j=25$	t_{rr}	-	42	-	ns
	$I_F=50A, V_R=400V,$ $di_F/dt=200A/\mu s, T_j=25$		-	125	-	

ELECTRICAL CHARACTERISTICS

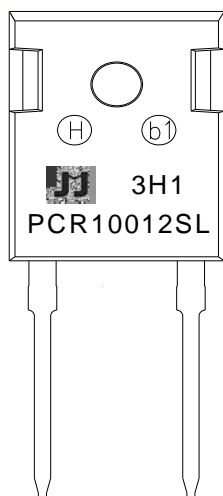
(Rating at 25 ambient temperature unless otherwise specified, continued)

Parameter		Symbol	Min.	Typ.	Max.	Unit
Reverse recovery time	$I_F=50A, V_R=400V, di_F/dt=200A/\mu s, T_j=125$	t_{rr}	-	260	-	ns
Reverse recovery current	$I_F=50A, V_R=400V, di_F/dt=200A/\mu s, T_j=25$	I_{RRM}	-	8	-	A
	$I_F=50A, V_R=400V, di_F/dt=200A/\mu s, T_j=125$		-	20	-	
Reverse recovery charge	$I_F=50A, V_R=400V, di_F/dt=200A/\mu s, T_j=25$	Q_{rr}	-	600	-	nC
	$I_F=50A, V_R=400V, di_F/dt=200A/\mu s, T_j=125$		-	3000	-	

THERMAL RESISTANCES

Symbol	Parameter	Min.	Typ.	Max.	Unit
$R_{th(j-c)}$	Thermal resistance from junction to case	-	-	0.3	/W

MARKING



PCR	Planar Hyperfast Recovery Rectifier
100	$I_{F(AV)}=100A$
12	$V_{RRM}:1200V$
SL	Package:TO-247J-2L

xH1: Month, 1/2/3~9/A/B/C

3x1:

2018	2019	2020	2021	2022	2023	2024
H	I	J	K	L	M	N
2025	2026	2027	2028	2029	2030	...
O	P	Q	R	S	T	...

3Hx: Batch number



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