

Schottky Diodes

Cree offers a family of silicon carbide (SiC) based *ZERO RECOVERY*[®] Rectifiers. These diodes have essentially no reverse recovery at 300V, 600V and 1200V breakdown and are targeted for applications where low switching loss is required. We offer devices with current ratings of 10A and 20A at 300V; 1A, 4A, 6A, 10A and 20A at 600V and 5A, 10A and 20A at 1200V.



Additional features of these devices are extremely fast switching, temperature independent switching behavior, positive temperature coefficient on forward voltage, and high frequency operation. These features enable systems with improved efficiency, reduced size and higher switching frequencies.

ZERO RECOVERY[®] RECTIFIERS

	V _{RRM} (V)	I _{F(AV)} (A)	V _{F(TJ= 25°C)}		V _{F(TJ= 175°C)}		T _{J(MAX)}	Package Type	
			Typ	Max	Typ	Max			
CSD10030A	300	10	1.2	1.4	1.4	1.8	175°C	TO-220-2	See Fig. 1
CSD20030D	300	20	1.2	1.4	1.4	1.8	175°C	TO-247-3	See Fig. 5

CSD01060A	600	1	1.6	1.8	2.0	2.4	175°C	TO-220-2	See Fig. 1
CSD01060E	600	1	1.6	1.8	2.0	2.4	175°C	DPAK	See Fig. 3
CSD04060A	600	4	1.5	1.8	2.0	2.4	175°C	TO-220-2	See Fig. 1
CSD04060B	600	4	1.5	1.8	2.0	2.4	175°C	TO-220-3	See Fig. 2
CSD04060E	600	4	1.5	1.8	2.0	2.4	175°C	DPAK	See Fig. 3
CSD06060A	600	6	1.6	1.8	1.9	2.4	175°C	TO-220-2	See Fig. 1
CSD06060B	600	6	1.6	1.8	1.9	2.4	175°C	TO-220-3	See Fig. 2
CSD06060G	600	6	1.6	1.8	1.9	2.4	175°C	D ² PAK	See Fig. 4
CSD10060A	600	10	1.5	1.8	2.0	2.4	175°C	TO-220-2	See Fig. 1
CSD10060G	600	10	1.5	1.8	2.0	2.4	175°C	D ² PAK	See Fig. 4
CSD20060D	600	20	1.5	1.8	2.0	2.4	175°C	TO-247-3	See Fig. 5

CSD05120A	1200	5	1.6	1.8	2.6	3.0	175°C	TO-220-2	See Fig. 1
CSD10120A	1200	10	1.6	1.8	2.5	3.0	175°C	TO-220-2	See Fig. 1
CSD10120D	1200	10	1.6	1.8	2.6	3.0	175°C	TO-247-3	See Fig. 5
CSD20120D	1200	20	1.6	1.8	2.5	3.0	175°C	TO-247-3	See Fig. 5

Fig. 1 TO-220-2

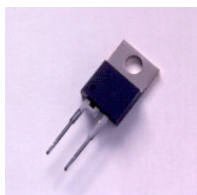


Fig. 2 TO-220-3

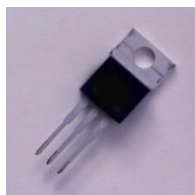


Fig. 3 DPAK



Fig. 4 D²PAK



Fig. 5 TO-247-3

