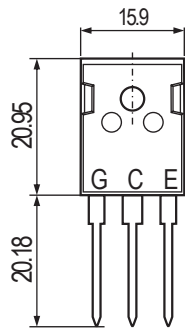


Discrete IGBTs

Discrete IGBTs, Super Junction MOSFETs, SiC Schottky Barrier Diodes



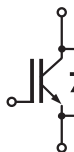
62



Without
free wheeling diode



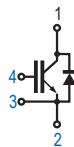
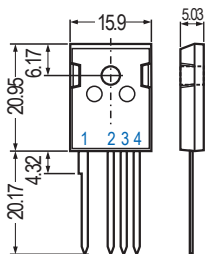
With
free wheeling diode



I _c	V-Series, 6th Generation Low loss , ~10kHz		V-Series, 6th Generation High speed , 10~30kHz		W-Series, 6th Generation Ultra high speed , 20~100kHz	
	600V	1200V	600V	1200V	650V	1200V
15A				FGW 15N 120H		
25A						FGW 25N 120W
30A				FGW 30N 120H		
35A			FGW 35N 60H			
40A				FGW 40N 120H	FGW 40N 65W	FGW 40N 120W
50A			FGW 50N 60H		FGW 50N 65W	
60A					FGW 60N 65W	
75A			FGW 75N 60H			
15A		FGW 15N 120VD		FGW 15N 120HD		
25A		FGW 25N 120VD				FGW 25N 120WD FGW 25N 120WE
30A	FGW 30N 60VD			FGW 30N 120HD	FGW 30N 65WD	
35A			FGW 35N 60HD FGW 35N 60HC ¹⁾			
40A		FGW 40N 120VD		FGW 40N 120HD	FGW 40N 65WD FGW 40N 65WE	FGW 40N 120WD FGW 40N 120WE
50A	FGW 50N 60VD		FGW 50N 60HD FGW 50N 60HC ¹⁾		FGW 50N 65WD FGW 50N 65WE	
60A					FGW 60N 65WD FGW 60N 65WE	
75A			FGW 75N 60HD FGW 75N 60HC ¹⁾		FGW 75N 65WE	

63

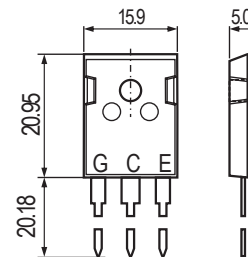
IGBT with Kelvin connection



	W-Series, 6th Generation Ultra high speed , 20~100kHz	
40A	650V	1200V FGZ 40N 120WE ¹⁾
50A	FGZ 50N 65WD FGZ 50N 65WE ¹⁾	
75A	FGZ 75N 65WE ¹⁾	

64

Reverse Blocking IGBT



I _C	600V
85A	FGW 85N 60RB

1) With full rating free wheeling diode

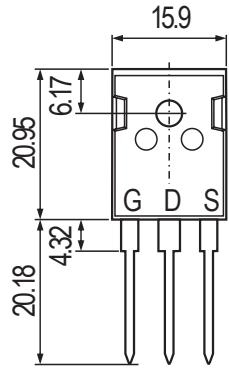
Super - Junction
MOSFET

V_{DS}

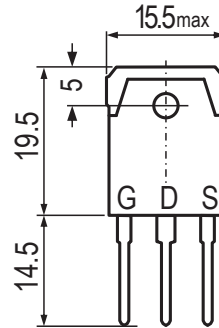
$R_{DS(on), max}$

I_D

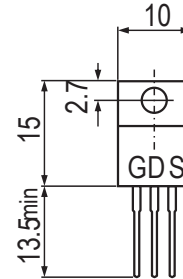
TO -247



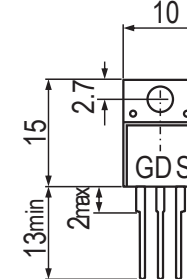
TO -3P(Q)



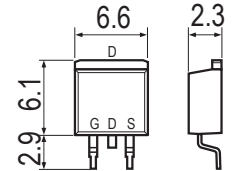
TO -220



TO -220F



TO -252

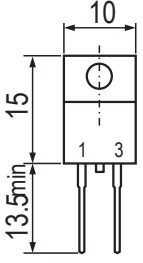
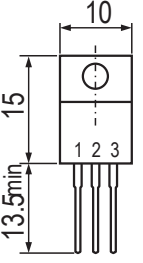
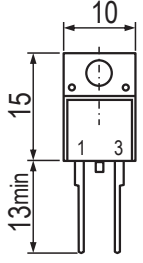
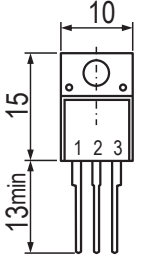
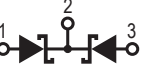
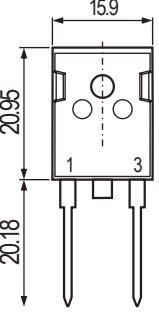
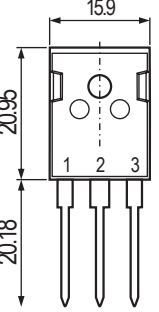
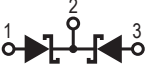
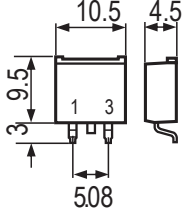
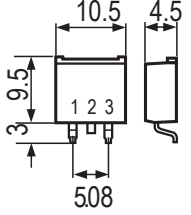


600V

25.4 mW	95.5 A	FM W 60N 025 S2				
40.0 mW	66.2 A	FM W 60N 040 S2				
55.0 mW	50.3 A	FM W 60N 055 S2				
70.0 mW	39.4 A	FM W 60N 070 S2			FM V 60N 070 S2	
79.0 mW	37.1 A	FM W 60N 079 S2		FM P 60N 079 S2	FM V 60N 079 S2	
88.0 mW	32.8 A	FM W 60N 088 S2		FM P 60N 088 S2	FM V 60N 088 S2	
99.0 mW	29.2 A	FM W 60N 099 S2		FM P 60N 099 S2	FM V 60N 099 S2	
125.0 mW	23.4 A	FM W 60N 125 S2		FM P 60N 125 S2	FM V 60N 125 S2	
160.0 mW	18.4 A	FM W 60N 160 S2		FM P 60N 160 S2	FM V 60N 160 S2	
190.0 mW	15.5 A	FM W 60N 190 S2	FM H 60N 190 S2	FM P 60N 190 S2	FM V 60N 190 S2	
280.0 mW	10.7 A		FM H 60N 280 S2	FM P 60N 280 S2	FM V 60N 280 S2	FM D 60N 280 S2
380.0 mW	8.1 A			FM P 60N 380 S2	FM V 60N 380 S2	FM D 60N 380 S2
With built-in FRED	27.0 mW	95.5 A	FM W 60N 027 S2 FD			
	43.0 mW	66.2 A	FM W 60N 043 S2 FD			
	59.0 mW	50.3 A	FM W 60N 059 S2 FD			
	75.0 mW	39.4 A	FM W 60N 075 S2 FD		FM V 60N 075 S2 FD	
	84.0 mW	37.1 A	FM W 60N 084 S2 FD		FM P 60N 084 S2 FD	FM V 60N 084 S2 FD
	94.0 mW	32.8 A	FM W 60N 094 S2 FD		FM P 60N 094 S2 FD	FM V 60N 094 S2 FD
	105.0 mW	29.2 A	FM W 60N 105 S2 FD		FM P 60N 105 S2 FD	FM V 60N 105 S2 FD
	133.0 mW	23.4 A	FM W 60N 133 S2 FD		FM P 60N 133 S2 FD	FM V 60N 133 S2 FD
	170.0 mW	18.4 A	FM W 60N 170 S2 FD		FM P 60N 170 S2 FD	FM V 60N 170 S2 FD

* Under development

SiC Schottky Barrier Diodes

		TO -220		TO -220F (insulated)		TO -247		T-Pack S	
		 Single 	 Dual 	 Single 	 Dual 	 Single 	 Dual 	 Single 	 Dual 
650V	10A	FDCP 10S 65		FDCA 10S 65		FDCY 10S 65		FDCC 10S 65	
	20A		FDCP 20C 65		FDCA 20C 65		FDCY 20C 65		FDCC 20C 65
	25A	FDCP 25S 65		FDCA 25S 65		FDCY 25S 65		FDCC 25S 65	
	50A						FDCY 50C 65		
1200V	18A			FDCA 18S 120		FDCY 18S 120			
	36A						FDCY 36C 120		

I_{FAV}



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