

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Gallium Arsenide Schottky Rectifier

Second generation ISOPLUS220™ Electrically Isolated Back Surface

Preliminary Data

 V_{RRM} = 600 V (2x300V) I_{DC} = 11 A $C_{Junction}$ = 4 pF

Туре	Marking on product	Circuit	Package	
DGSS 6-06CC	DGSS 6-06CC		ISOPLUS220A	

Diode					
Symbol	Conditions	Maximum Ratings			
V _{RRM/RSM}	(between terminal 1 and 3)	600 300	V V		
I _{FAV}	$T_C = 25$ °C; DC $T_C = 90$ °C; DC	11 6	A A		
I _{FSM}	$T_{VJ} = 45^{\circ}C; t_p = 10 \text{ ms (50 Hz), sine}$	30	А		
P _{tot}	T _C = 25°C	12	W		

Symbol	Conditions		 acteris typ.	tic Va max.	lues
V _F		$T_{VJ} = 25$ °C $T_{VJ} = 125$ °C	1.7 1.2	2.1	V V
I _R		$T_{VJ} = 25$ °C $T_{VJ} = 125$ °C	15	0.15	mΑ μΑ
I _{RM}		$-di_F/dt = 150 \text{ A/}\mu\text{s};$ $T_{VJ} = 125^{\circ}\text{C}$	0.6 20		A
C¹	V _R = 150 V;	T _{vJ} = 125°C	4		pF
R _{thJC}				12.5	K/W

Data according to IEC 60747 and per diode unless otherwise specified

Features

GaAs Schottky Diode with Enhanced Barrier Height:

- lowest operating forward voltage drop due to additional injection of minority carriers
- high switching speed
 - low junction capacity of GaAs diode independent from temperature
- short and low reverse recovery current peak due to short lifetime of minority carriers
- soft turn off
- low leakage current ISOPLUS220™ Package:
- isolated back surface
- low coupling capacy between pins and heatsink
- enlarged creepage
- high reliability
- industry standard outline

Applications

Power Factor Correction (PFC) Switched Mode Power Supplies:

- AC-DC converters
- DC-DC converters
- high switching frequency
- · high efficiency
- low EMI

for use e. g. in:

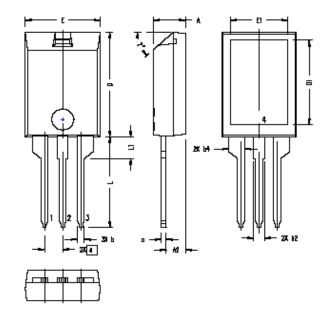
- telecom
- computer
- automotive equipment



Component					
Symbol	Conditions	Maximum Ratings			
I _{RMS}	per pin	45	А		
T _{VJ} T _{stg}		-55+175 -55+150	°C °C		
V _{ISOL}	I _{ISOL} ≤ 1 mA; 50/60 Hz	2500	٧~		
F _c	mounting force with clip	1050	N		

Symbol	Conditions	nditions Characteristic min. typ. n		
C _p	coupling capacity between shorted pins and mounting tab in the case		15	pF
R _{thCS}			0.3	K/W
Weight			2	g

ISOPLUS220 OUTLINE



SYM	INCHES		MILLIMETERS		
	MIN	MAX	MIN	MAX	
A	.157	.197	4.00	5.00	
A2	.098	.118	2.50	3.00	
b	.D35	.D51	0.90	1,30	
b2	.049	.065	1,25	1.65	
ь4	.093	.100	2.35	2.55	
С	BS0.	.039	0.70	1.00	
D	.591	.630	15.DD	16.00	
D1	.472	.512	12.00	13.00	
E	.394	.433	10.00	11.00	
E1	.295	.335	7.50	8.50	
e	.10D BASIC		2.55 BASIC		
L	.512	.571	13.00	14.50	
L1	.118	.138	3.00	3.50	
T*			42.5'	47.5"	

NOTE:

- Bottom heatsink (Fin 4) is electrically isolated from Pin 1, 2, or 3.
 This drawing will meet dimensional requirement of JEDEC SS Product Cuttine TO-273 except D and D1 dimension.