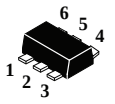
WEITRON

WGSMF05C

5-Line TVS Array

Lead(Pb)-Free

Peak Pulse Power
100 Watts
Reverse Working Voltage
5.0 VOLTS



SOT-563

Features:

* 100 Watts Peak Pulse Power per Line(tp=8/20 s)
* Monolithic Structure
* Low Clamping Voltage
* IEC Compatibility(EN6100-4)
  61000-4-2(ESD): Air–15kV, Contact-8kV
  61000-4-4(EFT): 40A–5/50ns
* ESD Protection>40 kilovolts
* Low Leakage Current
* Protects Four(4) Bidirectional Lines and Five(5) Unidirectional Lines

Main Applications:

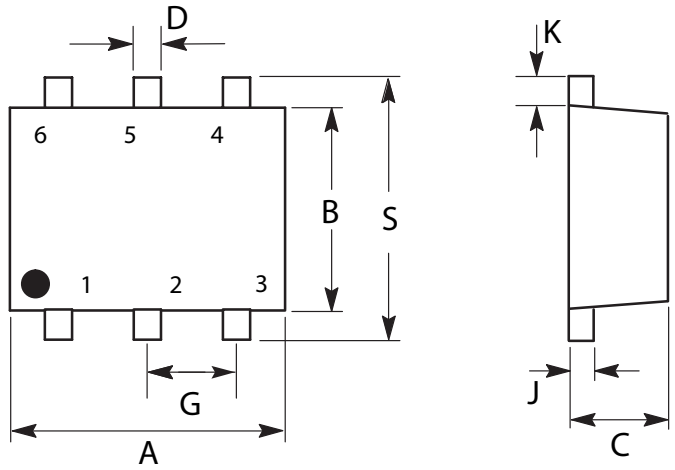
* Computer Notebooks
* Communication Systems & Cellular Phones
* Printers
* Personal Digital Assistant(PDA)
* Video Equipment

Mechanical Characteristics:

* Molded JEDEC SOT-563 Package
* Weight 3 milligrams

SOT-563 Outline Dimensions

Unit:mm



SOT-563		
Dim	**Min**	**Max**
A	1.50	1.70
B	1.10	1.30
C	0.50	0.60
D	0.17	0.27
G	0.50 REF	
J	0.08	0.16
K	0.10	0.30
S	1.50	1.70

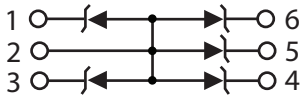
Maximum Ratings (T_A=25°C unless otherwise noted)

Parameter	Symbol	Value	Units
Peak Pulse Power (t_p=8/20μs) See Figure 1	P_{PP}	100	W
IEC61000-4-2 Air(ESD) IEC61000-4-2 Contact(ESD)	ESD	15 8	kV
Operating Temperature	T_J	-55 to +150	℃
Storage Temperature	T_{STG}	-55 to +150	℃

ELECTRICAL CHARACTERISTICS

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Reverse Working Voltage	I_R=1uA	V_{RWM}		-	5.0	V
Breakdown Voltage	I_T=1mA	V_{BR}	6.2	6.8	7.2	V
Reverse Leakage Current	V_{RWM}=3V	I_R	-	0.01	0.5	μA
Capacitance	V_R=0V,f=1MHz	C_J	-	54	70	pF

Device Marking

Item	Marking	Eqivalent Circuit diagram
WGSMF05C	EC	

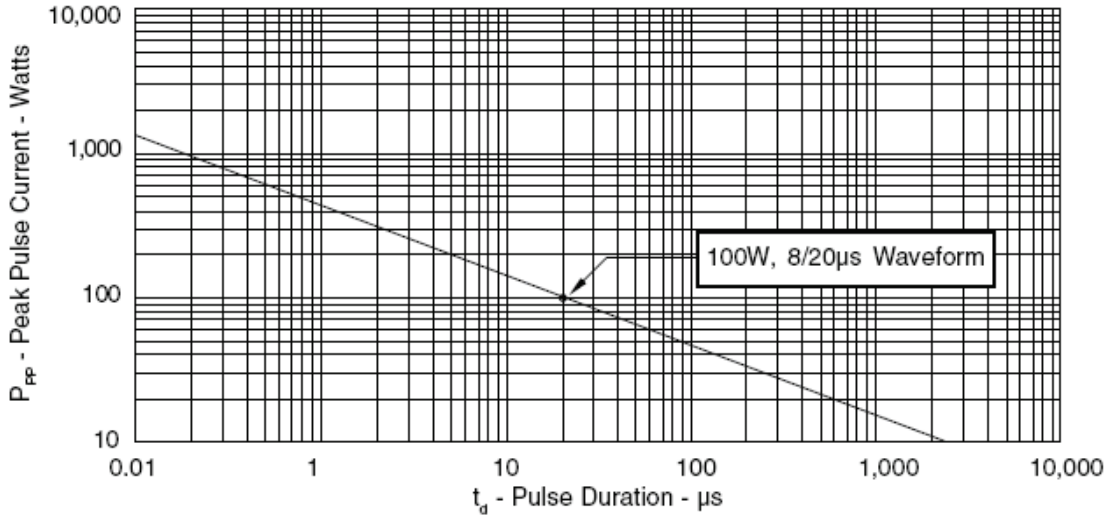


Figure 1 Peak Pulse Power VS Pulse Se Time

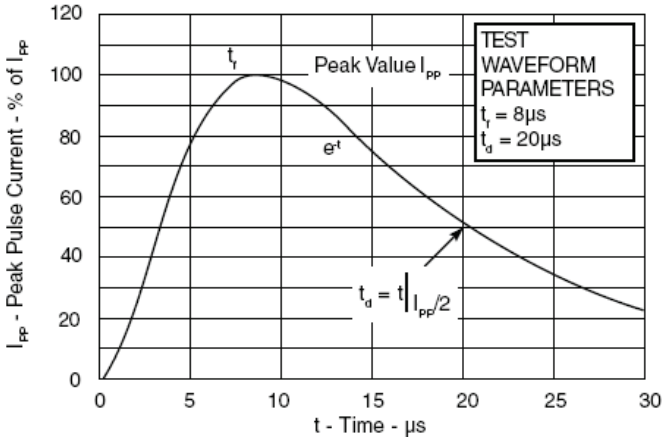


Figure 2 Pulse Wave Form

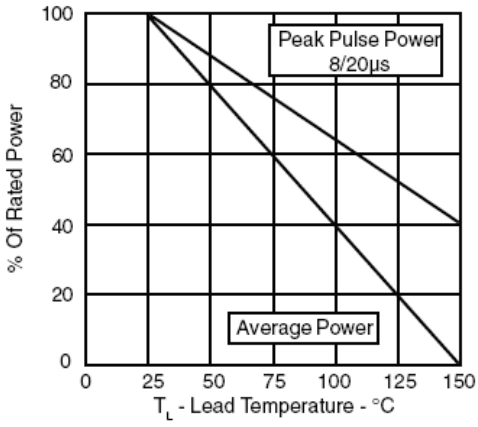


Figure 3 Power Derating Curve

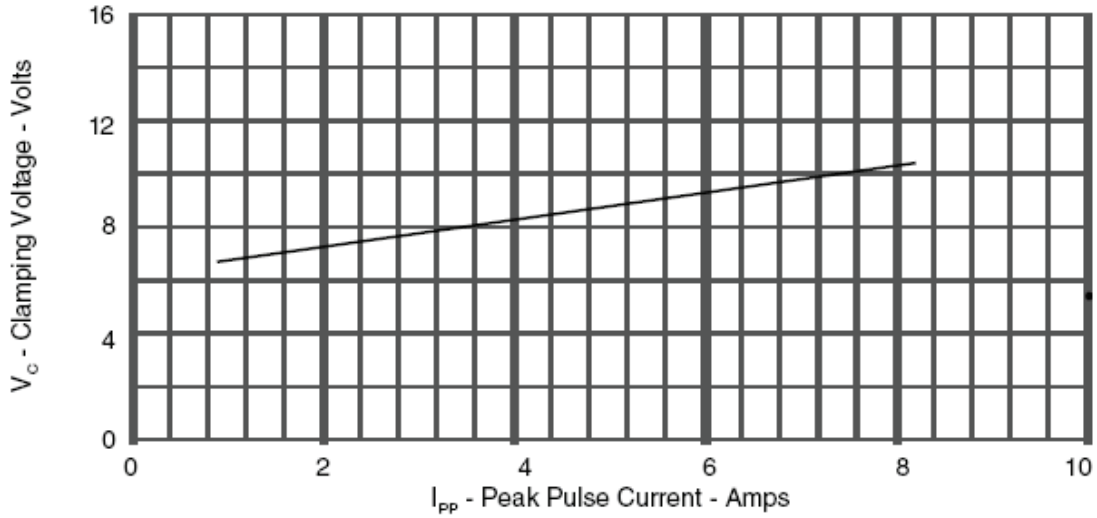


Figure 4 Typical Clamping Voltage VS Peak Pulse Current