

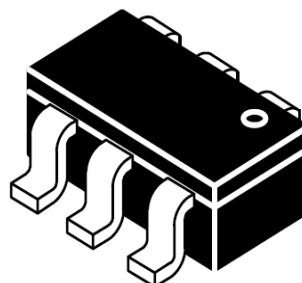
Features:

- 60 Watts Peak Pulse Power per Line (tp=8/20μs)
- Protects Four Unidirectional I/O Lines
- Low Clamping Voltage
- Working Voltages : 3.3V
- Low Leakage Current
- IEC61000-4-2 (ESD) ±25kV (air), ±15kV (contact)
- IEC61000-4-4 (EFT) 40A (5/50ns)
- IEC61000-4-5 (LIGHTNING) 4A (8/20μs)

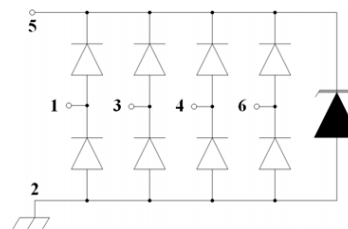
Applications:

- Ethernet Interface
- Switching Systems
- Access Equipment
- Central Office Equipment
- Customer Premise Equipment
- Microcontroller Input Protection

SOT26



Pin Configuration



Mechanical Characteristics

- JEDEC SOT-26 Package
- Molding Compound Flammability Rating : UL 94V-0
- Weight 16.0 Milligrams (Approximate)
- Quantity Per Reel : 3,000 pcs
- Reel Size : 7 inch
- Lead Finish : Lead Free

Absolute Maximum Ratings (Tamb=25°C unless otherwise specified)

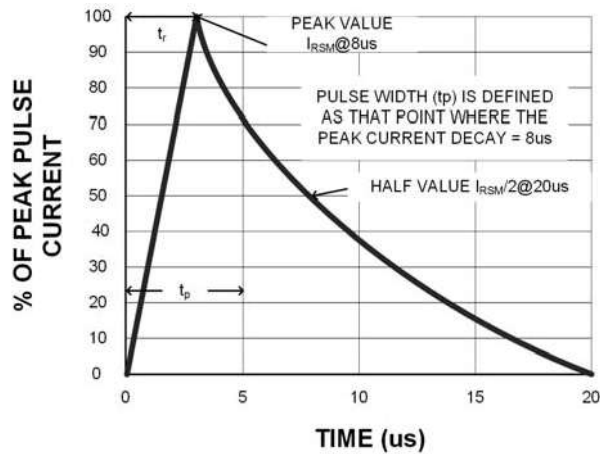
Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20μs)	Ppp	60	W
ESD per IEC 61000-4-2 (Air)	VESD	± 25	Kv
ESD per IEC 61000-4-2 (Contact)		± 15	
Operating Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	TSTJ	-55 to +150	°C

Electrical Characteristics(TA=25°C unless otherwise specified)

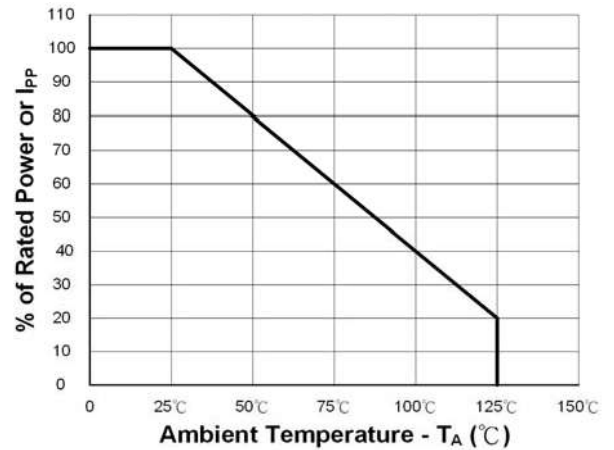
	Device Marking	V _{RWM} (V)	V _{BR} (V)	I _T (mA)	V _C @1A	V _C		I _R μA (Max)	C (Pf) (Typ.)
						(Max)	(@A)		
KWSR33-04A	S3R	3.3	4.5	1	6.8	15	4	0.1	0.7

TYPIC CHARACTERISTICS

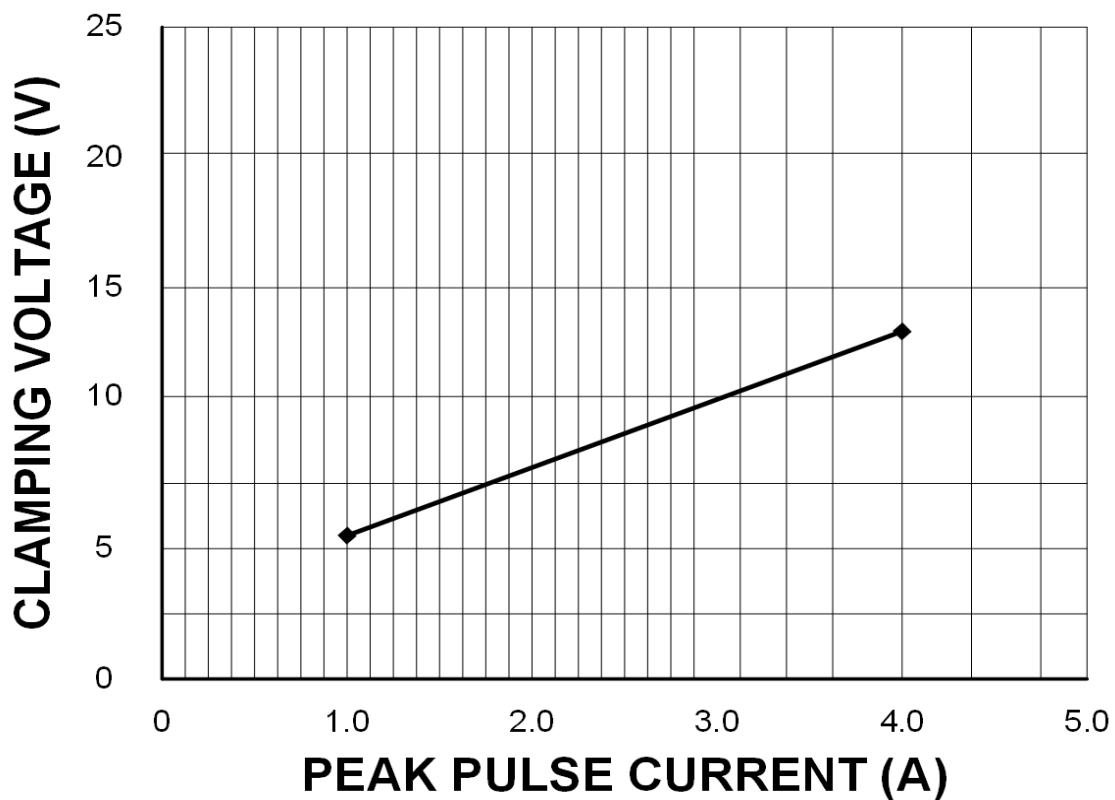
8 x 20 μ s Waveform



Power Derating Curve

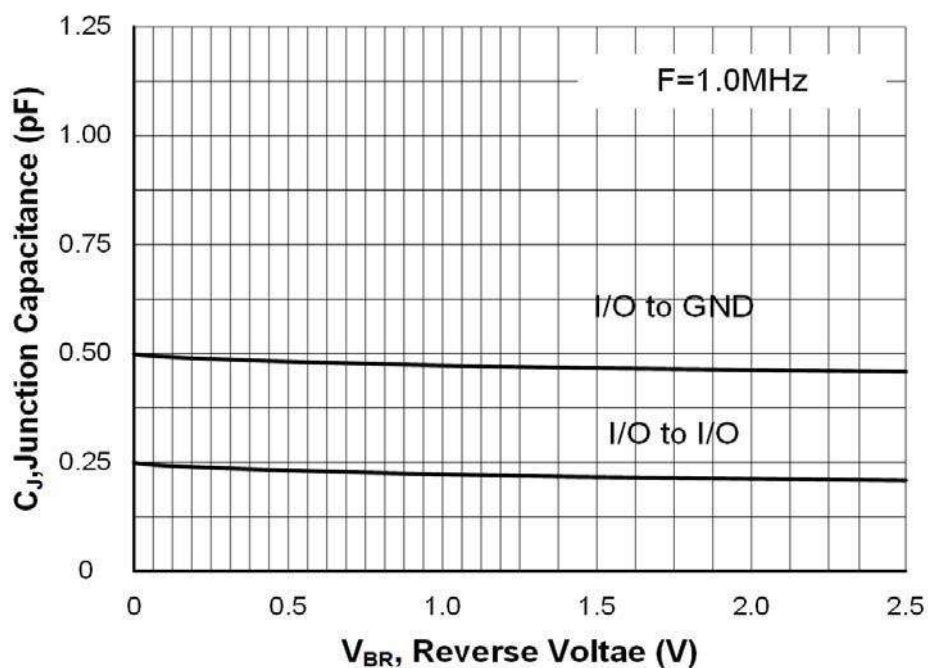


Clamping Voltage vs. Peak Pulse Current ($t_p=8/20\mu s$)

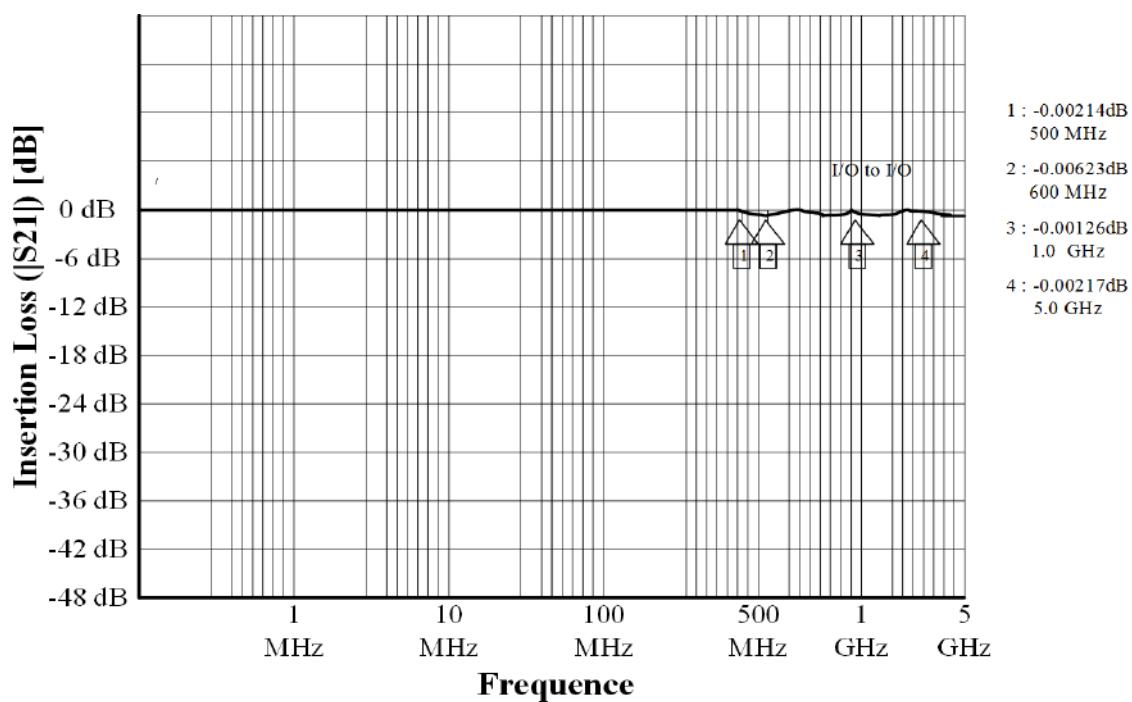


TYPIC CHARACTERISTICS

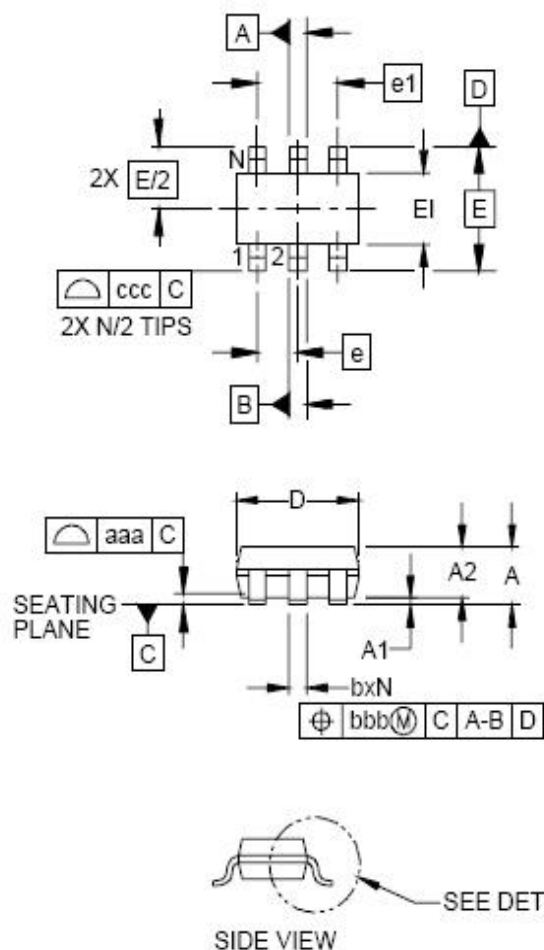
Typic Capacitance vs. Reverse Voltage



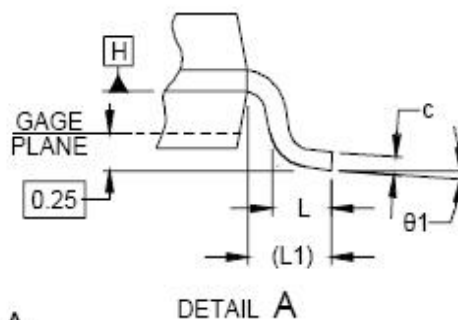
Insertion Loss (S21)



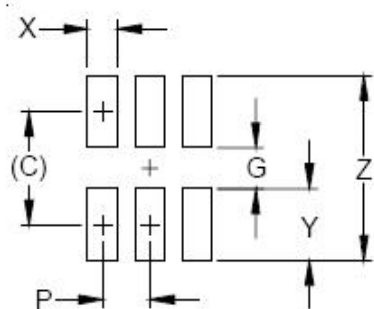
SOT-26 PACKAGE OUTLINE & DIMENSIONS



DIM	INCHES			MILLIMETERS		
	MIN	NOM	MAX	MIN	NOM	MAX
A	.035	-	.057	0.90	-	1.45
A1	.000	-	.006	0.00	-	0.15
A2	.035	.045	.051	.90	1.15	1.30
b	.010	-	.020	0.25	-	0.50
c	.003	-	.009	0.08	-	0.22
D	.110	.114	.122	2.80	2.90	3.10
E1	.060	.063	.069	1.50	1.60	1.75
E	.110 BSC			2.80 BSC		
e	.037 BSC			0.95 BSC		
e1	.075 BSC			1.90 BSC		
L	.012	.018	.024	0.30	0.45	0.60
L1	(.024)			(0.60)		
N	6			6		
θ_1	0°	-	10°	0°	-	10°
aaa	.004			0.10		
bbb	.008			0.20		
ccc	.008			0.20		



* SOLDERING FOOTPRINT



DIMENSIONS		
DIM	INCHES	MILLIMETERS
C	(.098)	(2.50)
G	.055	1.40
P	.037	0.95
X	.024	0.60
Y	.043	1.10
Z	.141	3.60