



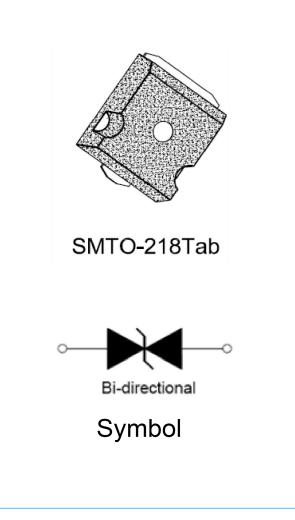
KCXXXCS Series

Description

The KCXXXCS series of high current bi-directional transient suppressors are designed for A.C.line protection and high power DC bus clamping applications.They provide a clamping voltagfe lower than the avalanche voltage.any voltage rise due to increased current conduction is contained to a minimum, Providing the best possible protection level.They can also be connected in series and/or parallel to create very high capacity protecyion solutions.

Description

- Halogen-free
- Bi-directional
- Low slope resistance
- Very low clamping voltage
- Sharp breakdown voltage
- RoHS compliant
- Glass passivated junction
- High power TVS with compact design in surface Mount package plastic package has underwriters laboratory f lammmability 94V-0P
- Ideal for automatic pick and place assembly and reflow process to reduce the manufacturing cost And increase the soldering quality compared to axial leads package



Absolute Maximum Ratings (T_A = 25℃RH=45%-75% nless otherwise specified)

Parameter	Symbol	Value	Unit
Peak current rating per 8/20µs IEC 61000-4-5	IPP	10	KA
Operating junction temperature range	TJ	-55 to +125	°C
Operating storage temperature range	TSTG	-55 to +150	°C





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Electrical Characteistics (T_A=25°C)

Part Number	V _R	V _{BR} @I _T		It	I _R @V _R	Vc@I _{PP}	(I) IPP
Bi-Polar	v	Min(V)	Max(V)	mA	μΑ	V	А
KC-036CS	36	39	46	10	10	98	10000
KC-058CS	58	64	70	10	10	110	10000
KC-066CS	66	72	80	10	10	120	10000
KC-076CS	76	85	95	10	10	140	10000

① Surge waveform:8/20µs

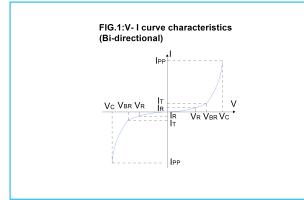
 $V_{\mbox{\scriptsize R}}$: Stand-off voltage -- Maximum voltage that can be applied

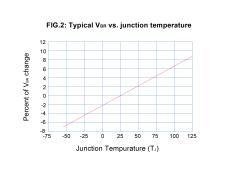
VBR: Breakdown voltage

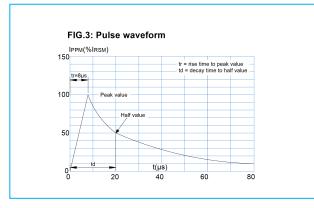
 V_{C} : Clamping voltage -- Peak voltage measured across the suppressor at a specified I_{PP}

 I_R : Reverse leakage current

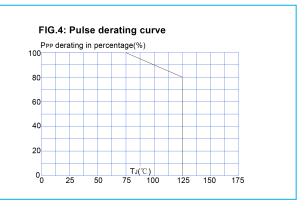
Ratings And V-ICharacteristics (T_A = 25[°]C nless otherwise noted)







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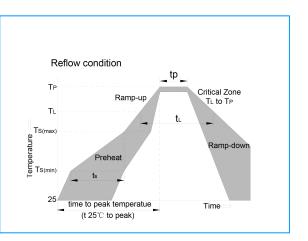




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Soldering Parameters

	Reflow Condition	Pb-Free assembly (see figure at right)	
	-Temperature Min (T _{s(min)})	+150℃	
Pre	-Temperature Max(T _{s(max)})	+200 ℃	
Heat	-Time (Min to Max) (ts)	60-180 secs.	
Average ra (T∟)to pea	amp up rate (Liquidus Temp ak)	3℃/sec. Max	
T _{s(max)} to T	- Ramp-up Rate	3℃/sec. Max	
	-Temperature(T∟)(Liquidus)	+217℃	
Reflow	-Temperature(t∟)	60-150 secs.	
Peak Tem	р (Т _р)	+260(+0/-5) ℃	
Time within	n 5°Cof actual Peak Temp (t _p)	20-40secs.	
Ramp-dow	n Rate	6℃/sec. Max	
Time 25℃	to Peak Temp (T _P)	8 min. Max	
Do not exc	eed	+260 ℃	



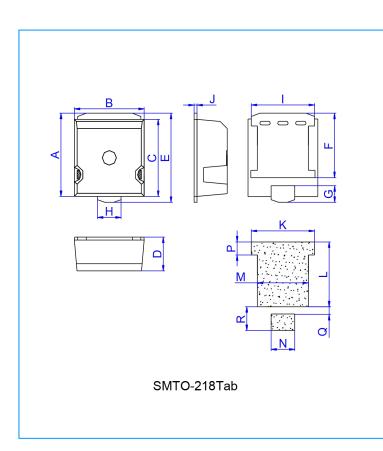
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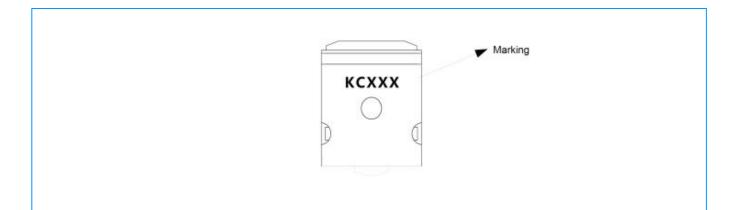
KCXXXCS Series

Package Mechanical Data



	Dimensions					
Ref.	Millimeters		Inches			
	Min.	Тур.	Max.	Min.	Тур.	Max.
А	17.00		17.60	0.669		0.693
В	14.50		15.10	0.571		0.594
С	15.75		16.35	0.620		0.644
D	6.85		7.20	0.270		0.283
Е	18.20		18.70	0.717		0.736
F	13.10		13.60	0.516		0.535
G	3.15		3.75	0.124		0.148
н	4.85		5.15	0.191		0.203
Ι	13.20		13.60	0.520		0.535
J	0.50		0.70	0.020		0.028
К		13.70			0.539	
L		13.45			0.530	
М		10.80			0.425	
N		5.30			0.209	
Р		3.00			0.118	
Q		1.50			0.059	
R		4.90			0.193	

Marking



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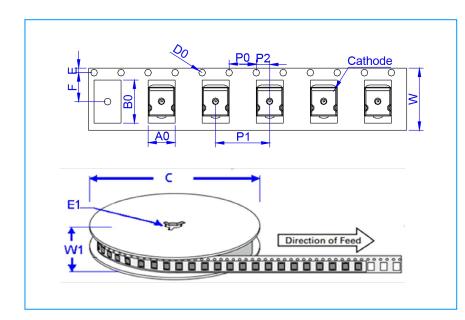
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KCXXXCS Series

Tape And Reel Specification-SMTO-218Tab



	Dimensions				
Ref.	Millimeters	Inches			
A0	15.1 ± 0.3	0.594± 0.012			
B0	18.8 ± 0.3	0.740 ± 0.012			
С	330	13			
D0	1.50 ± 0.1	0.059 ± 0.004			
E	1.75 ± 0.2	0.069 ± 0.008			
E1	13.30 ± 0.3	0.524± 0.012			
F	14.20 ± 0.2	0.559 ± 0.008			
P0	4.0 ± 0.2	0.157 ± 0.008			
P1	20.0 ± 0.2	0.787 ± 0.008			
P2	2.0 ± 0.2	0.079 ± 0.008			
w	32.0± 0.2	1.260 ± 0.008			
W1	36.0±0.5	1.417±0.020			

Packageing

OUTLINE	PACKAGE	UNIT WEIGHT (g/PCS) typ.	REEL (PCS)	REEL DIAMETERS (mm)
TAPING	KCXXXCS	6.48	400	330