



Dimensions inches (mm)

С

 (0.4 ± 0.2)

 (0.4 ± 0.2)

 (0.4 ± 0.3)

d

.028±.008

(0.7±0.2)

.024±.008

 (0.6 ± 0.2)

.016±.008

(0.4+0.2)

.049±.008

(1.25±0.2) .045±.008 (1.15±0.2)

.043±.008

(1.1±0.2)

t

024±.004

 (0.6 ± 0.1)

.024±.004

(0.6+0.1)

.024±.004

 (0.6 ± 0.1)

w

.079±.008 049±.008 016±.008

.079±.008 .049±.008 .016±.008

.126±.008 .063±.008 .016±.012

 (1.6 ± 0.2)

(2.0±0.2) (1.25±0.2)

(2.0±0.2) (1.25±0.2)

low resistance, low T.C.R. flat chip resistor

Current detecting resistors for power supplies,

• Low resistance (100m Ω or under) and high accuracy

High reliability and performance with T.C.R. ±75x10⁻⁶/K

features

motor circuits, etc.

AEC-Q200 qualified

Size

Code

UR73VD

2A (0805)

UR73V 2A

(0805)

UR73VD 2B

(1206)

(±1%) for current detection

Suitable for flow and reflow solderingsProducts will meet EU RoHS requirements

Resistance

Range (Ω)

10m~16m

18m~36m

39m~100m

10m~13m

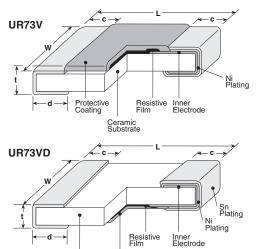
15m~16m

18m~20m



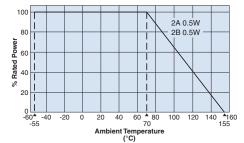


dimensions and construction



Derating Curve

Ceramic Substrate



Protective Coating

For resistors operated at an ambient temperature of 70°C or above, the power rating shall be derated in accordance with the above derating curve.

ordering information

		22m~27m				.039±.008 (1.0±0.2)	
	UR73V 2B (1206)	30m~33m	100.000	.063±.008 (1.6±0.2)	.039±.012 (1.0±0.3)	.016 +.008 004 (0.4 +0.2) -0.1	.024±.004 (0.6±0.1)
		36m~39m			.035±.012 (0.9±0.3)		
	(1200)	43m~100m			.026±.012 (0.65±0.3)		
100		2A 0.5W (100					
80		2B 0.5W (100 2B 0.5W (128 2B 1W (110°	5°C) 1/1/				
% Rated Power							
20 L				\downarrow			

100

110 125

 (3.2 ± 0.2)

For resistors operated at a terminal part temperature of described for each size or above, the power rating shall be derated in accordance with the above derating curve. Please refer to "Introduction of the derating curve based on the terminal part temperature" in the beginning of our catalog prior use.

140

155

UR73V	2B	Т	TD	30L0	F
Туре	Power Rating	Termination Material	Packaging	Nominal Resistance	Tolerance
UR73V UR73VD: Face-down	2A: 0.5W 2B: 0.5W 2B: 1W	T: Sn	TD: 4mm pitch punch paper	"R" indicates decimal on values = $100m\Omega$ Ex: R100 = $100m\Omega$ "L" indicates decimal on values <100mΩ Ex: $10L0$ = $10m\Omega$	F: ±1%

-20

0

-40

20 40 60 80

Terminal Part Temperature (°C)

For further information on packaging, please refer to Appendix A.

Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use. 10/26/20



120







low resistance, low T.C.R. flat chip resistor

applications and ratings

Part Designation	Power* Rating	Rated Ambient Temperature	Rated Terminal Temperature	T.C.R. (X10⁵/K)	Resistance Range (Ω) E24 & 25m, 50m	Resistance Tolerance	Operating Temperature Range
UR73V 2A	0.5W	70°C	100°C	±75	39m~100m		
UR73VD 2A	0.5W	70°C	100°C	±75	15m~36m	F: ±1%	-55°C to +155°C
				0~+150	12m~13m		
				0~+250	10m~11m		
UR73V 2B	0.5W	70°C	125°C	±75	33m~75m		
				±100	30m, 82m~100m		
	1W**	70°C	95°C	±75	33m~75m		
	IVV			±100	30m, 82m~100m		
UR73VD 2B	0.5W 7	7000	125°C	0~+250	10m~11m		
		70°C		±75	12m~27m		
UR73VD 2B	1W** 70	70%0		0~+250	10m, 11m		
	IVV	70°C	70°C 95°C	±75	12m~27m		

* Rated voltage = $\sqrt{Power Rating X Resistance Value}$

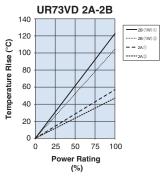
** Please keep the resistor operating according to the derating curve of the terminal part temperature based on the specified power rating.

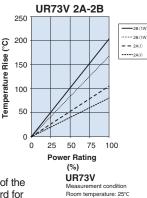
If any questions should arise whether to use the "Rated Ambient Temperature" or the "Rated Terminal Part Temperature," please give priority to the "Rated Terminal Part Temperature." Prior to use and for more details refer to "Introduction of the derating curves on the terminal part temperature" in the beginning of the catalog.

-2B(1W)

environmental applications

Temperature Rise





Regarding the temperature rise, the value of the temperature varies per conditions and board for use since the temperature is measured under our measuring conditions.



UR73VD

Measurement condition

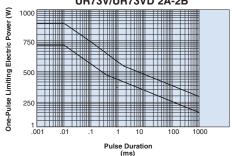
Room temperature: 25°C PCB: FR-4t = 1.6mm

Cu foil thickness: 35µm

1: Hot spot

Te

One-Pulse Limiting Electric Power UR73V/UR73VD 2A-2B



The maximum applicable voltage is equal to the max. overload voltage. Please contact factory for resistance characteristics of continuous applied pulse.

Performance Characteristics

Requirement $\Delta_{R} \pm (\%+0.005\Omega)$					
Parameter	Limit	Typical	Test Method		
Resistance	Within specified tolerance	_	25°C		
T.C.R.	Within specified T.C.R.	—	+25°C/-55°C and +25°C/+125°C		
Overload (Short time)	±2%	±0.5%	Rated voltage x 2.5 for 5 seconds		
Resistance to Solder Heat	±1%	±0.3%	260°C ± 5°C, 10 ± 1 second		
Rapid Change of Temperature	±1%	±0.5%	-55°C (30 minutes), +125°C (30 minutes), 100 cycles		
Moisture Resistance	±2%	±1%	40°C ± 2°C, 90%~95%RH, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle		
Endurance at 70°C	±2%	±1%	70°C ± 2°C, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle		
High Temperature Exposure	±1%	±0.3%	+155°C, 1000 hours		
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