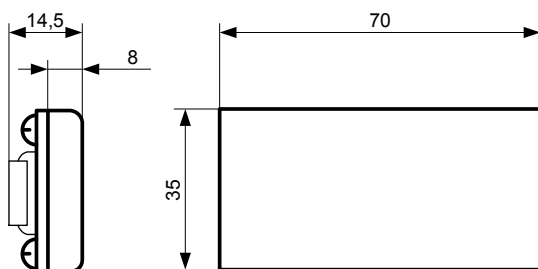


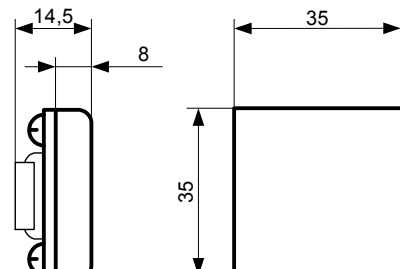
LED semiconductor devices

LED semiconductor devices (further named as devices) are used for the change of incandescent lamps in the lighting indicators of TSS, TSM, TSB and other types.
Operating temperature range makes from minus 10° to 55° C.

Product type	Emission color	Supply voltage, V	Current type	Average absorbed current, mA not more	Functional area	Housing drawing №	Indicator type
SPIU1A-Y-24DC SPIU 1A-R-24DC SPIU 1A-G-24DC	yellow red green	24	DC	35	Emission at supply of +24 V (polarity should be kept!)	8	ТСБ-220
SPIU 2A-Y-220AC SPIU 2A-R-220AC SPIU 2A-G-220AC	yellow red green	220	AC 50 Hz	45	Emission at supply of ~220 V, 50 Hz	9	ТСБ-220
SPIU 3A-Y-220AC SPIU 3A-R-220AC SPIU 3A-G-220AC	yellow red green	220	AC 50 Hz	45	Emission at supply of ~220 V, 50 Hz	4	ТСМ
SPIU 4A-Y-220DC SPIU 4A-R-220DC SPIU 4A-G-220DC	yellow red green	220	DC	30	Emission at supply of +220V «lamp check» circuit	7	ТСМ
SPIU 5A-Y-220DC SPIU 5A-R-220DC SPIU 5A-G-220DC	yellow red green	220	DC	30	Emission, impulse on RIS/RTD, «lamp check» circuit	5	ТСБ-220
SPIU 6A-Y-110DC SPIU 6A-R-110DC SPIU 6A-G-110DC	yellow red green	110	DC	40	Emission at supply of +110 V (polarity should be kept!), «lamp check» circuit	1	ТСС-66(М) ТСБ
SPIU 7A-Y-48DC SPIU 7A-R-48DC SPIU 7A-G-48DC	yellow red green	48	DC	40	Emission at supply of +48 V (polarity should be kept!)	1	ТСБ-220
SPIU 9A-Y-110DC SPIU 9A-R-110DC SPIU 9A-G-110DC	yellow red green	110	DC	35	Emission, impulse on RIS/RTD, supply mode of outer generator, flickering picking-up(hand or automatic), «lamp check» circuit	6	ТСС-66(М) ТСБ
SPIU 9Б-Y-220DC SPIU 9Б-R-220DC SPIU 9Б-G-220DC	yellow red green	220	DC	25		6	
SPIU 10A-Y-110AC/DC SPIU 10A-R-110AC/DC SPIU 10A-G-110AC/DC	yellow red green	110	DC and AC	30	Emission at supply of Us on any socle, possibility of «lamp check»	3	ТСС-66(М) ТСБ-220
SPIU 10Б-Y-220AC/DC SPIU 10Б-R-220AC/DC SPIU 10Б-G-220AC/DC	yellow red green	220	DC and AC	25		3	
SPIU 11A-Y-110DC SPIU 11A-R-110DC SPIU 11A-G-110DC	yellow red green	110	DC	30	Emission, Impulse on RIS/RTD, flickering mode of built-in generator, flickering picking-up (hand and automatic), «lamp check» circuit	6	ТСС-66(М) ТСБ
SPIU 12A-Y-110AC/DC SPIU 12A-R-110AC/DC SPIU 12A-G-110AC/DC	yellow red green	110	DC and AC	30	Emission, Impulse on RIS/RTD, «lamp check» circuit	5	ТСБ-220
SPIU 12Б-Y-220AC/DC SPIU 12Б-R-220AC/DC SPIU 12Б-G-220AC/DC	yellow red green	220	Dc and AC	25		5	
SPIU 14A-W-24(30) AC/DC SPIU 14A-Y-24(30) AC/DC SPIU 14A-R-24(30) AC/DC SPIU 14A-G-24(30) AC/DC	white yellow red green	24 (30)	DC and AC	35	Emission at supply Us	1	1578-1 TT
SPIU 15A-W-24(30) AC/DC SPIU 15A-Y-24(30) AC/DC SPIU 15A-R-24(30) AC/DC SPIU 15A-G-24(30) AC/DC	white yellow red green	24 (30)	DC and AC	35		2	



pic. 1



pic.2