



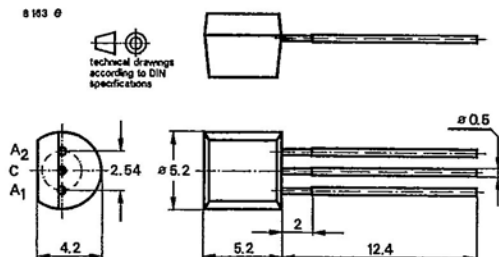
## Silicon Epitaxial Planar Dual Capacitance Diodes

**Applications:** Tuning separate resonant circuits, push-pull circuits in FM range especially for car-radios

### Features:

- Common cathode

### Dimensions in mm



Standard plastic case  
10 A3 DIN 41 868  
JEDEC TO 92  
Weight max. 0.2 g

### Marking: By letters

#### Absolute maximum ratings

Repetitive peak reverse voltage	$V_{RRM}$	32	V
Reverse voltage	$V_R$	30	V
Forward current	$I_F$	100	mA
Junction temperature	$T_j$	100	°C
Storage temperature range	$T_{stg}$	- 55...+ 100	°C

#### Characteristics

$T_j = 25\text{ °C}$ , unless otherwise specified

Reverse current

$V_R = 30\text{ V}$	$I_R$		50	nA
$V_R = 30\text{ V}, T_j = 60\text{ °C}$	$I_R$		0.5	µA

Diode capacitance

$V_R = 2\text{ V}, f = 1\text{ MHz}$	$C_D^{1)}$	42	47.5	pF
<b>Group: red</b>	$C_D$	42	43.5	pF
<b>Group: yellow</b>	$C_D$	43	44.5	pF
<b>Group: white</b>	$C_D$	44	45.5	pF
<b>Group: green</b>	$C_D$	45	46.5	pF
<b>Group: blue</b>	$C_D$	46	47.5	pF

Capacitance ratio

$f = 1\text{ MHz}$	$\frac{C_D(2\text{ V})}{C_D(8\text{ V})}$	1.65	1.75	
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Series resistance

$C_D = 38\text{ pF}, f = 100\text{ MHz}$	$r_s$	0.3	0.4	Ω
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Figure of merit

$C_D = 38\text{ pF}, f = 100\text{ MHz}$	$Q$	100	140	
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<sup>1)</sup> A packing unit contains diodes from one capacity group only. Delivery of single capacity groups available only on request.