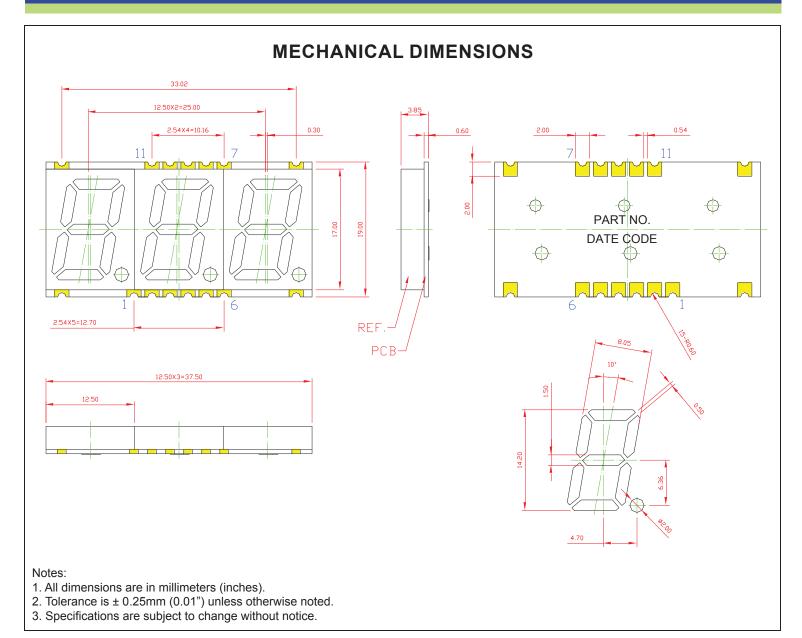


SPECIFICATIONS SDTC56R2W

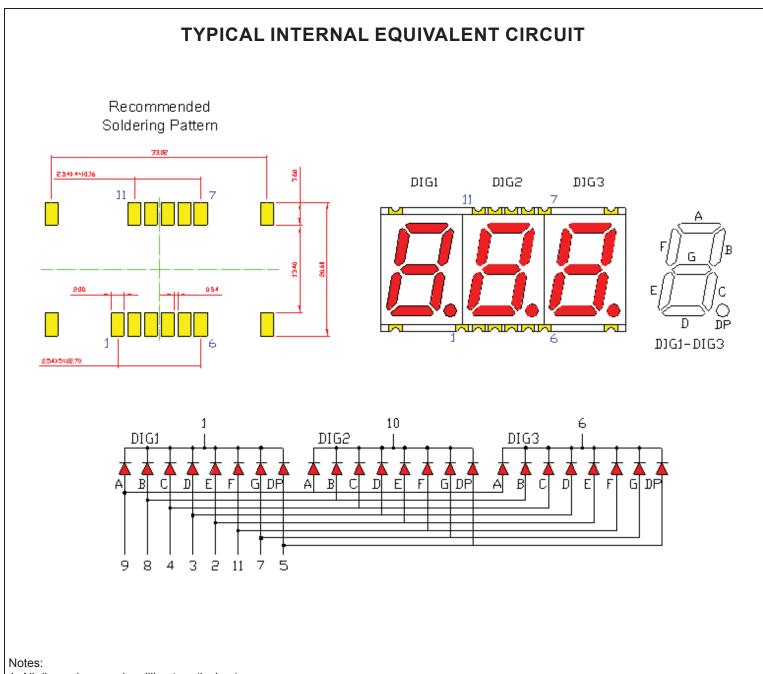


Part Number	Chip Material	Color of Emission	Lens Type	Description	
SDTC56R2W	InGaAlP	Red	White Segment	Common Cathode	





SPECIFICATIONS



- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is \pm 0.25mm (0.01") unless otherwise noted.
- 3. Specifications are subject to change without notice.



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ABSOLUTE MAXIMUM RATINGS

(TA=25°C)

Parameter	Symbol		Unit	
Power Dissipation per Dice	Pad	70	mW	
Derating Liner from 25°C per Dice	-	0.28	mA / °C	
Continuous Forward Current per Dice	laf	25	mA	
Peak Current per Dice (duty cycle 1/10, 1kHz)	lpf	90	mA	
Reverse Voltage per Dice	VR	5	°C	
Operating Temperature	Topr	-40~+105	°C	
Storage Temperature	Тѕтс	-40~+105	°C	

OPTICAL-ELECTRICAL CHARACTERISTICS

 $(TA=25^{\circ}C)$

Characteristic	Symbol	Candition	Value			I Imit
Characteristic		Condition	Min.	Type.	Max.	Unit
Forward Voltage per Dice	VF	IF =20mA		2.0	2.6	V
Reverse Current per Dice	lR	VR = 5V		-	10	μA
Peak Wavelength per Dice	λР	IF =20mA	-	632	-	nm
Dominant Wavelength per Dice	λD	IF =20mA	-	625	-	nm
Luminous Intensity	lv	IF =20mA	-	25	_	mcd
Spectral Radiation Bandwidth per Dice	Δλ	IF =20mA	-	20		nm

^{*}Tolerance of viewing angle: -10 / +5 deg.



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OPTICAL CHARACTERISTIC CURVES

Typical Electro-optical Characteristic Curves (25 °C Free Air Temperature Unless Otherwise Specified)

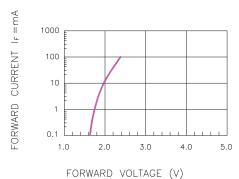
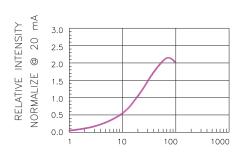


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE



FORWARD CURRENT (mA)
Fig.2 RELATIVE INTENSITY VS. FORWARD CURRENT

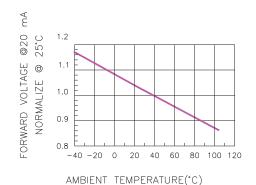


Fig.3 FORWARD VOLTAGE VS. TEMPERATURE

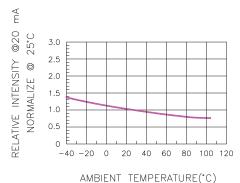


Fig.4 RELATIVE INTENSITY VS. TEMPERATURE

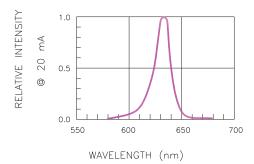
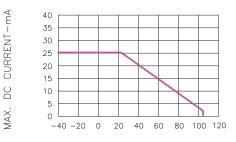


Fig.5 RELATIVE INTENSITY VS. WAVELENGTH



AMBIENT TEMPERATURE (TA)—°C
Fig.6 MAX. ALLOWABLE DC CURRENT
VS. AMBIENT TEMPERATURE



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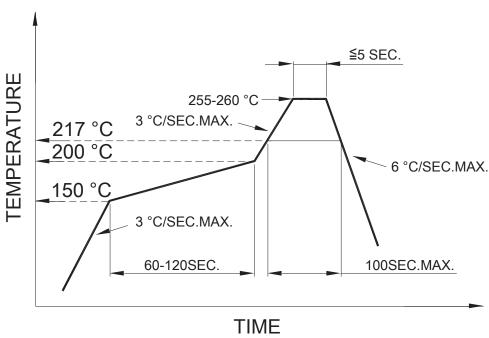


SOLDERING CONDITIONS - SMD TYPE LED

RECOMMEND SOLDERING PROFILE

SMT Soldering Profile

Pb free reflow soldering Profile



SOLDERING IRON

Basic specification : ≦4 seconds when 260°C, If temperature is higher, time should be shorter (+10°C→1 sec). Power dissipation of iron should be smaller than 15W, and temperature should be controllable. Surface temperature of the device should be under 230°C.

REWORK

Customer must finish rework within ≦3 sec under 350°C.

