

# Distributed Gate Thyristors - Capsule Types

WESTCODE

Westcode is recognised as the Worldwide leader in distributed gate technology. These devices are available with blocking voltages to 5.2 kV and currents to 3 kA, with  $t_q$  from 10  $\mu$ s to 300  $\mu$ s. The unique distributed gate design and lifetime control features give these devices both high di/dt capability and fast, low recovery turn-off, while maintaining a low on-state voltage drop. Ideally suited to application including: induction heating, power supplied, high frequency inverters/converters, UPS and pulse power.

Type		$V_{DRM}$ $V_{RRM}$	$I_{TAV}$ $T_K = 55^\circ C$	$I_{TSM}$	$I^2t$ 10 ms ½ sine $V_R \leq 60\% V_{RRM}$	$t_q$ @ 200 V/ $\mu$ s	Typ. Reverse Recov. Charge			$V_{TO}$	$r_T$	$T_{JM}$	$R_{thJK}$	Fig. No.
Part No. ➤ New	Old Part No.	V	A	A	A <sup>2</sup> s	$\mu$ s	$T_{JM}$ , $Q_{ra}$ $\mu C$	@ $I_{TM}$ A	50% Chord @ -di/dt A/ $\mu$ s	@ $T_{JM}$ V	m $\Omega$	°C	180° Sine K/W	
R0487YS10D	R210SH10	1000	487	4300	92.5 x 10 <sup>3</sup>	20	40	550	40	1.738	0.943	125	0.0500	W9
R0487YS10E	R210SH10	1000	487	4300	92.5 x 10 <sup>3</sup>	25	40	550	40	1.738	0.943	125	0.0500	W9
R0487YS10F	R210SH10	1000	487	4300	92.5 x 10 <sup>3</sup>	30	40	550	40	1.738	0.943	125	0.0500	W9
R0487YS12D	R210SH12	1200	487	4300	92.5 x 10 <sup>3</sup>	20	40	550	40	1.738	0.943	125	0.0500	W9
R0487YS12E	R210SH12	1200	487	4300	92.5 x 10 <sup>3</sup>	25	40	550	40	1.738	0.943	125	0.0500	W9
R0487YS12F	R210SH12	1200	487	4300	92.5 x 10 <sup>3</sup>	30	40	550	40	1.738	0.943	125	0.0500	W9
R0487YS14D	R210SH14	1400	487	4300	92.5 x 10 <sup>3</sup>	20	40	550	40	1.738	0.943	125	0.0500	W9
R0487YS14E	R210SH14	1400	487	4300	92.5 x 10 <sup>3</sup>	25	40	550	40	1.738	0.943	125	0.0500	W9
R0487YS14F	R210SH14	1400	487	4300	92.5 x 10 <sup>3</sup>	30	40	550	40	1.738	0.943	125	0.0500	W9
R0577YS08C	R185SH08	800	577	6000	180 x 10 <sup>3</sup>	15	85	550	40	1.510	0.640	125	0.0500	W9
R0577YS08D	R185SH08	800	577	6000	180 x 10 <sup>3</sup>	20	85	550	40	1.510	0.640	125	0.0500	W9
R0577YS08E	R185SH08	800	577	6000	180 x 10 <sup>3</sup>	25	85	550	40	1.510	0.640	125	0.0500	W9
R0577YS10C	R185SH10	1000	577	6000	180 x 10 <sup>3</sup>	15	85	550	40	1.510	0.640	125	0.0500	W9
R0577YS10D	R185SH10	1000	577	6000	180 x 10 <sup>3</sup>	20	85	550	40	1.510	0.640	125	0.0500	W9
R0577YS10E	R185SH10	1000	577	6000	180 x 10 <sup>3</sup>	25	85	550	40	1.510	0.640	125	0.0500	W9
R0577YS12C	R185SH12	1200	577	6000	180 x 10 <sup>3</sup>	15	85	550	40	1.510	0.640	125	0.0500	W9
R0577YS12D	R185SH12	1200	577	6000	180 x 10 <sup>3</sup>	20	85	550	40	1.510	0.640	125	0.0500	W9
R0577YS12E	R185SH12	1200	577	6000	180 x 10 <sup>3</sup>	25	85	550	40	1.510	0.640	125	0.0500	W9
R0633YS08D	R216SH08	800	633	6300	200 x 10 <sup>3</sup>	20	85	550	40	1.250	0.614	125	0.0500	W9
R0633YS08E	R216SH08	800	633	6300	200 x 10 <sup>3</sup>	25	85	550	40	1.250	0.614	125	0.0500	W9
R0633YS08F	R216SH08	800	633	6300	200 x 10 <sup>3</sup>	30	85	550	40	1.250	0.614	125	0.0500	W9
R0633YS10D	R216SH10	1000	633	6300	200 x 10 <sup>3</sup>	20	85	550	40	1.250	0.612	125	0.0500	W9
R0633YS10E	R216SH10	1000	633	6300	200 x 10 <sup>3</sup>	25	85	550	40	1.250	0.614	125	0.0500	W9
R0633YS10F	R216SH10	1000	633	6300	200 x 10 <sup>3</sup>	30	85	550	40	1.250	0.614	125	0.0500	W9
R0633YS12D	R216SH12	1200	633	6300	200 x 10 <sup>3</sup>	20	85	550	40	1.250	0.612	125	0.0500	W9
R0633YS12E	R216SH12	1200	633	6300	200 x 10 <sup>3</sup>	25	85	550	40	1.250	0.614	125	0.0500	W9
R0633YS12F	R216SH12	1200	633	6300	200 x 10 <sup>3</sup>	30	85	550	40	1.250	0.614	125	0.0500	W9
R0717LS14G	R181SH14	1400	717	7050	248.5 x 10 <sup>3</sup>	35	150	1000	60	1.752	0.732	125	0.0320	W60
R0717LS14H	R181SH14	1400	717	7050	248.5 x 10 <sup>3</sup>	40	150	1000	60	1.752	0.732	125	0.0320	W60
R0717LS14J	R181SH14	1400	717	7050	248.5 x 10 <sup>3</sup>	50	150	1000	60	1.752	0.732	125	0.0320	W60
R0717LS16G	R181SH16	1600	717	7050	248.5 x 10 <sup>3</sup>	35	150	1000	60	1.752	0.732	125	0.0320	W60
R0717LS16H	R181SH16	1600	717	7050	248.5 x 10 <sup>3</sup>	40	150	1000	60	1.752	0.732	125	0.0320	W60
R0717LS16J	R181SH16	1600	717	7050	248.5 x 10 <sup>3</sup>	50	150	1000	60	1.752	0.732	125	0.0320	W60
R0736LS20J	R175SH20	2000	736	6800	231 x 10 <sup>3</sup>	50	240	1000	60	1.842	0.619	125	0.0320	W60
R0736LS20K	R175SH20	2000	736	6800	231 x 10 <sup>3</sup>	60	240	1000	60	1.842	0.619	125	0.0320	W60
R0736LS20L	R175SH20	2000	736	6800	231 x 10 <sup>3</sup>	65	240	1000	60	1.842	0.619	125	0.0320	W60
R0736LS20M	R175SH20	2000	736	6800	231 x 10 <sup>3</sup>	70	240	1000	60	1.842	0.619	125	0.0320	W60
R0736LS22J	R175SH22	2200	736	6800	231 x 10 <sup>3</sup>	50	240	1000	60	1.842	0.619	125	0.0320	W60
R0736LS22K	R175SH22	2200	736	6800	231 x 10 <sup>3</sup>	60	240	1000	60	1.842	0.619	125	0.0320	W60
R0736LS22L	R175SH22	2200	736	6800	231 x 10 <sup>3</sup>	65	240	1000	60	1.842	0.619	125	0.0320	W60
R0736LS22M	R175SH22	2200	736	6800	231 x 10 <sup>3</sup>	70	240	1000	60	1.842	0.619	125	0.0320	W60
R0736LS25J	R175SH25	2500	736	6800	231 x 10 <sup>3</sup>	50	240	1000	60	1.842	0.619	125	0.0320	W60
R0736LS25K	R175SH25	2500	736	6800	231 x 10 <sup>3</sup>	60	240	1000	60	1.842	0.619	125	0.0320	W60
R0736LS25L	R175SH25	2500	736	6800	231 x 10 <sup>3</sup>	65	240	1000	60	1.842	0.619	125	0.0320	W60
R0736LS25M	R175SH25	2500	736	6800	231 x 10 <sup>3</sup>	70	240	1000	60	1.842	0.619	125	0.0320	W60
R0809LS06A	R180SH06	600	809	8000	320 x 10 <sup>3</sup>	10	50	1000	60	2.100	0.300	125	0.0320	W60
R0809LS06B	R180SH06	600	809	8000	320 x 10 <sup>3</sup>	12	50	1000	60	2.100	0.300	125	0.0320	W60
R0809LS06C	R180SH06	600	809	8000	320 x 10 <sup>3</sup>	15	50	1000	60	2.100	0.300	125	0.0320	W60
R0809LS10A	R180SH10	1000	809	8000	320 x 10 <sup>3</sup>	10	50	1000	60	2.100	0.300	125	0.0320	W60
R0809LS10B	R180SH10	1000	809	8000	320 x 10 <sup>3</sup>	12	50	1000	60	2.100	0.300	125	0.0320	W60
R0809LS10C	R180SH10	1000	809	8000	320 x 10 <sup>3</sup>	15	50	1000	60	2.100	0.300	125	0.0320	W60
R0830LS10D	R190SH10	1000	830	8500	361 x 10 <sup>3</sup>	20	110	1000	60	1.900	0.357	125	0.0320	W60
R0830LS10E	R190SH10	1000	830	8500	361 x 10 <sup>3</sup>	25	110	1000	60	1.900	0.357	125	0.0320	W60
R0830LS10F	R190SH10	1000	830	8500	361 x 10 <sup>3</sup>	30	110	1000	60	1.900	0.357	125	0.0320	W60
R0830LS10G	R190SH10	1000	830	8500	361 x 10 <sup>3</sup>	35	110	1000	60	1.900	0.357	125	0.0320	W60
R0830LS12D	R190SH12	1200	830	8500	361 x 10 <sup>3</sup>	20	110	1000	60	1.900	0.357	125	0.0320	W60
R0830LS12E	R190SH12	1200	830	8500	361 x 10 <sup>3</sup>	25	110	1000	60	1.900	0.357	125	0.0320	W60
R0830LS12F	R190SH12	1200	830	8500	361 x 10 <sup>3</sup>	30	110	1000	60	1.900	0.357	125	0.0320	W60
R0830LS12G	R190SH12	1200	830	8500	361 x 10 <sup>3</sup>	35	110	1000	60	1.900	0.357	125	0.0320	W60
R0830LS14D	R190SH14	1400	830	8500	361 x 10 <sup>3</sup>	20	110	1000	60	1.900	0.357	125	0.0320	W60
R0830LS14E	R190SH14	1400	830	8500	361 x 10 <sup>3</sup>	25	110	1000	60	1.900	0.357	125	0.0320	W60
R0830LS14F	R190SH14	1400	830	8500	361 x 10 <sup>3</sup>	30	110	1000	60	1.900	0.357	125	0.0320	W60
R0830LS14G	R190SH14	1400	830	8500	361 x 10 <sup>3</sup>	35	110	1000	60	1.900	0.357	125	0.0320	W60