	ESC	C	DC	CUMENT	CHANGE REQUEST				
DCR number	1519	Changes required for:	Gene	eral	Originator: Steve Thacker				
Date: 2022/10	Date: 2022/10/20 Date sent: 2022/07/29				Organisation: ESCC Executive				
Status: IMPLEMENTED									
Title:	TRANSISTORS, POWER, MOSFET, P-CHANNEL, RAD-HARD BASED ON TYPE STRH12P10								
Number:	5205/029	Issue:		7					
Other documents affected:									
Page:									
12									
Paragraph:									
Para. 2.6.1 Room Temperature Electrical Measurements									
Original wording:									
For the following characteristics in Para. 2.6.1:									
Turn-on Delay Time [td(on)] maximum limit was: 13ns									
Turn-off Delay Time [td(off)] maximum limit was: 42ns									
Reverse Recovery Time (trr) test conditions and maximum limit were: VDS = -60V, ISD = -12A, di/dt = 40A/s, Tj = +25 \pm 3°C Maximum limit: 258ns									
Proposed wording:									
Amend the following characteristics as follows (see also attached spec mark-up: Draft 8A with changes highlighted yellow):									
Turn-on Delay Time [td(on)] maximum limit to be: 15.6ns									
Turn-off Delay Time [td(off)] maximum limit to be: 50.4ns									
Reverse Recovery time (trr) test conditions and maximum limit to be: VDD = -50V, ISD = -6A, di/dt = 50A/µs, Tcase= +22 ±3°C Maximum limit: 310ns									
Justification:									
This DCR is raised on behalf of Manufacturer STM. STM provided the following explanation/justification:									
A recent dynamic characterization has been performed on a significant quantity of devices. This has detected poor marginality and unstable measurements vs. the conditions and limits specified in ESCC5205/029 issue 7. Accordingly, new limits and conditions have been defined to reflect the product's actual characteristics. See also attached: STM dynamic test results paper on this subject.									

	SC		DOCUMENT	CHANGE REQUEST				
DCR number	1519	Changes required for: General		Originator: Steve Thacker				
Date: 2022/10/20 Date sen		Date sent: 2022/07/29		Organisation: ESCC Executive				
Status: IMPLEMENTED				Secretariat				
Note: No diffusion process has been changed since the initial ESCC qualification.								
Attachments:								
escc5205029iss_draft_8a_in_review.docx, dcr_attachment_for_5209029.pdf								
Modifications:								
N/A								
Approval signature:								
Attended								
Date signed:								
2022-10-20								